GILT EDGE INDUSTRIES LIMITED

FLOORING PREPARATION AND INSTALLATION SPECIALISTS

PROTECT CRETE

THE NAME SAYS IT ALL

Moisture Control Data Book

EVERY FLOORING INSTALLATION DESERVES THE "GILT EDGE" FINISH

FEBRUARY 2025

GILT EDGE INDUSTRIES LIMITED®

P O Box 7515, Sydenham, Christchurch 8204
Free Phone: 0800 445 833
Email: help@giltedge.co.nz
www.giltedge.co.nz

Auckland - Glenfield			
Glenfield Store	3/7 Colway Place, Glenfield	09 443 7067	Fax 09 444 0510
Chris Dickey	Managing Director	0274 355 891	chris@giltedge.co.nz
Fiona Carter	Auckland Administration	09 443 7067	fiona@giltedge.co.nz
Steve Mulcahy	Depot Manager	09 443 7067	glenfield@giltedge.co.nz
Auckland - Penrose			
Penrose Store	37 Fairfax Avenue, Penrose	09 579 7067	Fax 09 579 7064
Nick Richardson	General Manager	027 268 9300	nick@giltedge.co.nz
		09 579 6128	DDI
Martino Rosandi	National Supply Chain Manager	027 468 8551	martino@giltedge.co.nz
Ben Tualevao	Depot Manager	09 579 7067	penrose@giltedge.co.nz
Eric Sleegers	Auckland Sales Consultant	0274 364 642	eric@giltedge.co.nz
Larissa Huia	Auckland/Northland Sales Consultant	0274 364 005	larissa@giltedge.co.nz
Jaco Malan	Technical Sales Account Manager	027 779 9337	jaco@giltedge.co.nz
Whangarei			
Guthrie Bowron	34 Porowini Avenue Whangarei		
Larissa Huia	Auckland/Northland Sales Consultant	0274 364 005	larissa@giltedge.co.nz
Hamilton			
Hamilton Store	59 Killarney Road Frankton Hamilton	07 847 6452	Fax 07 847 6924
Jason Bone	Depot Manager	027 261 2800	hamilton@giltedge.co.nz
Duncan McDonnell	BOP Waikato Sales Consultant	027 223 4147	duncan@giltedge.co.nz
Tauranga			
Tauranga Store	Unit 3, 33 Burrows Street Tauranga	07 571 8244	Fax 07 847 6924
Alan French	Depot Manager	027 213 7209	tauranga@giltedge.co.nz
Duncan McDonnell	BOP Waikato Sales Consultant	027 223 4147	duncan@giltedge.co.nz
New Plymouth			
New Plymouth Store	1 Davidson Street, New Plymouth	06 968 0070	newplymouth@giltedge.co.nz
Jo Birrell	Depot Manager		
Tony Wicksteed	Lower North Island Sales Consultant	0274 364 646	tony@giltedge.co.nz
Palmerston North			
Palmerston North Store	Unit A, 65 Taonui Street Palmerston North	06 825 6519	
John Biberstein	Depot Manager	06 825 6519	palmerstonnorth@giltedge.co.nz
Tony Wicksteed	Lower North Island Sales Consultant	0274 364 646	tony@giltedge.co.nz
Wellington			
Wellington Store	50 Fitzherbert Street, Petone	04 569 7067	Fax 04 569 7066
Shane Driscoll	Depot Manager	04 569 7067	wellington@giltedge.co.nz
Tony Wicksteed	Lower North Island Sales Consultant	0274 364 646	tony@giltedge.co.nz
Nelson			
Nelson Store	8b Tokomaru Place Nelson	027 429 6669	nelson@giltedge.co.nz
Dave Coltman	Depot Manager	03 544 5778	
Craig Kennelly	South Island Sales Manager	0274 387 266	craig@giltedge.co.nz
Christchurch Head Office			
110 Antigua Street Addington - PO Box 7515 Sydenham		Phone 03 379 7067 or 0800 445 833	
Chris Campbell	Office Manager	03 379 7067	help@giltedge.co.nz
Alex Cudworth	Depot Manager	027 664 9944	alex@giltedge.co.nz
Craig Kennelly	South Island Sales Manager	0274 387 266	craig@giltedge.co.nz
Timaru			
Dores for Floors	41 Bank Street Timaru		
Craig Kennelly	South Island Sales Manager	0274 387 266	craig@giltedge.co.nz
Dunedin			
Dunedin Store	15 Turakina St Sth Dunedin	03 455 7067	Fax 03 455 7069
Steve Chester	Depot Manager	03 455 7067	dunedin@giltedge.co.nz
Martin McCarron	Lower South Island Sales Consultant	027 248 2770	martin@giltedge.co.nz

PROTECT CRETE
THE NAME SAYS IT ALL

oxtek
Concrete technologies

Current Product List & Summary

Densi-Proof – When applied to newly poured concrete provides curing equal to water pond cure. When applied to new or existing concrete, hardens, waterproofs and provides protection from carbonation and contamination. Controls moisture in concrete to make safe for coverings and coatings. Suitable for low pressure spray application to newly placed concrete and airless pressure spraying to existing concrete.

Moisture-Fix – Does all the same things as Densi-Proof. Formulated for pour on soft broom spreading or low pressure pump pack spray application. Cannot be applied with high pressure airless spray.

Densi-Proof Reo Protect – For application to new or existing concrete to arrest/prevent rebar corrosion. Designed for infrastructure rescue and the protection of new concrete from Carbonation and development of steel corrosion with ageing and contamination.

Densi-Proof Plus X300 Surface Repeller – For application to new or clean existing concrete to provide all the benefits of Densi-Proof for curing moisture control and waterproofing as well as an invisible surface sealer component to provide top surface protection. On old contaminated concrete use Densi-Proof or Moisture – Fix followed by a separate application of X300 Surface Repeller.

X100 Green Cure – Non membrane forming curing and hardening for new concrete of all types from broom finish to steel trowelled. Not a water proofing or moisture control product for coverings and coatings….see Densi-Proof or Moisture-Fix.

X260 Medi Vet - X260 Medi Vet is a single pack one application spray on system that deeply penetrates new or existing concrete, provides curing, permanent waterproofing and deep matrix resistance to bacteria, moulds and fungi.

X263 Medi Vet Repeller - X263 Medi Vet Repeller is a single pack one application spray on system that deeply penetrates new or existing clean concrete, permanently filling the concretes porosity, providing curing, waterproofing and deep matrix resistance to bacteria, moulds and fungi. X263 Medi Vet Repeller with SteriTouch has independent antimicrobial testing showing complete protection against E.coli and Methicillin Resistant Staphylococcus aureus.

X300 Surface Repeller – Invisible, no build surface treatment for concrete that repels water and resists oils. Excellent for sealing off the top surface porosity left by Densi-Proof and Moisture-Fix.

X310 Repeller SteriTouch - X310 Repeller SteriTouch is an invisible, breathable low VOC treatment for concrete. Penetrates and chemically bonds to the silica providing water repellence and oil resistance. Dries to a clear invisible no build, breathable finish. Proven SteriTouch Antimicrobial silver ion protection. Always use part of our multi product system.

X520 Warehouse – Economical treatment for new concrete to provide curing, hardening and invisible surface sealing and dust reduction. Reflects through the natural gloss of steel trowelled concrete. Also suitable for clean existing concrete.

X550 Carpark – Economical treatment for new concrete to provide cure, hardening and invisible surface sealing and dust protection. Reduces tyre squeal and oil penetration resulting in ease of cleaning. Suitable for the application of painted line marking. Can also be used on clean existing concrete.

Always refer to latest Technical Data Sheets on our web site for full details or contact us or our distributer to discuss your project.

Environmentally Friendly – 0.0 g/L VOC – Green Star Compliant

HACCP AUSTRALIA FOOD SAFETY PROGRAMME CERTIFICATION

PROTECT CRETE / GEI INSTALLATION GUIDELINE

– Key Information in Appendix A

May 25, 2018

Version 7

To be read in conjunction with Protect Crete 2018 and following documentation

- Densi-Proof TDS 2020 - https://giltedge.co.nz/download/tds-pcx200-densi-proof?wpdmdl=8476&refresh=622f92515407a1647284817
- Moisture Fix TDS 2020 - https://giltedge.co.nz/download/tds-pcx220-moisture-fix?wpdmdl=8481&refresh=622f9d086835d1647287560(Appendix A applies to Moisture Fix as well as Densi-Proof)
- Current NZ/AS Flooring Standards and all Technical data sheets of specified products

1) Product in Brief - **Densi-Proof (DP)**

- Non flammable/non toxic liquid penetrating product
- provides a colloidal ("gluey substance/gelatinous") silicate gel barrier within the concrete substrate
- provides permanent waterproofing and protection
- Can apply floorcoverings after substrate preparation after 14 days new concrete slab.

2) Preparation to Apply DP

- On a new concrete slab within 24 hours apply by low pressure or nap sack at 4.5m@ litre for cure and moisture seal
- On existing concrete mechanically grind / sand to produce clean, sound and porous floor (if cannot achieve this contact GEI) prior to application of DP. Sanding is the preferred method to remove all dust and purged moisture, latience however if residual DP is on the concretes surface it must be ground off and completely removed. See install specs.
- Cracking on Floor: contact GEI for specific instruction

3) Coverage

- Freshly Placed Concrete: Minimum 5m2 per litre. Existing Concrete: Minimum 5m2 per litre.

4) Application

- spray application by trained applicator

5) Preparation for Future Coatings, Floor Prep and Floor Coverings

- Refer to appendix A following

APPENDIX A

DATA SHEET FOR INSTALLING GILT EDGE INDUSTRIES ADHESIVES AND FLOOR PREPARATION PRODUCTS OVER PROTECT CRETE DENSI-PROOF

This is a brief overview only and must be read in conjunction with the specific instructions detailed in the products data sheets of DP, adhesives and FLCs

The following recommendations are offered as a guide only when installing GEIL adhesive/floor levelling compounds over Densi-Proof treated concrete.

Installations must be carried out by experienced tradesman familiar with the specified products and their uses. All installations must meet the standards as set out in AS/NZS Resilient Sheet and Tiles 1184:2013 and AS/NZS 2455.1:2007 Textile Floorcoverings.

SUB FLOOR PREPARATION AFTER APPLICATION OF DP

1) **It is imperative to mechanically remove all purged surface contaminants and residual DP – if not it will inhibit adhesion of the floor leveling compound or adhesive. For heavy contamination, a diamond grinder, captive shotblast etc. may be used or if the contamination is light, a progress sander (Canterbury machine 24 – 40 grit paper) may be used. Regardless the substrate MUST be clean, dry, sound and absorbent before further installations take place.**
2) **The appropriate method of removal must be determined on site by the contractor.**
3) **Vacuum clean surface.**

DEALING WITH CRACKS IN THE CONCRETE SUBSTRATE

Cracks are always a problem for the installer. So often the client is asking for the installer to recommended crack repair procedure that takes away the responsibility of possible failure from the installer. This is especially the case in regards to structural cracking where the void is full depth of the concrete. In this case, Moisture Fix should be applied first before applying your normal crack repair system. In most cases, cracks are not full depth and are only micro or surface cracking, commonly caused by rapid surface drying or plastic shrinkage which would be not effect the efficiency or the result of Moisture- Fix. It is worth noting that Moisture- Fix is not designed or makes claim to fix cracks, however there are many applications where moisture has migrated through cracks of 1mm (even with hydrostatic pressure present) that have been eliminated permanently. If you do have major cracking and are directed to proceed by the client, then we would suggest that you make up a floor plan showing the location of cracks etc and keep it filed, just in case there are some demarcation problems down the track.

Remedial repair of Cracks prior to installing floorcoverings. **(Including chases cut in the original substrate penetrating the damp course membrane)**

1) Apply DP and prepare substrate as normal.
2) Chase cracks out with a V shape grinder blade to remove loose edges and create a well.
3) Mix equal parts Roberts 35 Fine Patch and RL20 Hydrocoat to a smooth paste and trowel into crack. (or use Giltgrip Epoxy Concrete Repair kit)

4) Once set apply “bandage” (we recommend ButylSeal Flexible bandage 80mm wide) over the cracks surface. (as an extra precaution you may apply a single coat of Hydrocoat over the bandage to a distance of 100mm either side)

Note: There is no guarantee with cracks/chases that they will not create future issues as they may continue to move or shrink. This procedure is remedial only and provides the best practical solution to voids in the substrate.

APPLICATION OF GILT EDGE FLOOR LEVELLING COMPOUND (FLC)

All **UZIN FLC’s** may be used as directed over Densi-Proof treated concrete as long as appropriate subfloor preparation has been completed.

- *Uzin NC888 (Feather Edge)*
- *Uzin NC182 (Patch/Ramp repair))*
- *Uzin NC170 and NC160 Self Levelling Compound*
- *All Uzin floor preparation compounds*

NOTE: Critical attention must be paid to the absorbency of the subfloor before FLC application. For non-absorbent subfloor a two-part primer may be required. Refer to all Uzin FLC data application sheets for the relevant procedures in all circumstances.

APPLICATION OF GILT EDGE ADHESIVES

All **Roberts, RLA Polymer, Giltgrip** and **Uzin** adhesives may be used over Densi-Proof treated concrete as long as appropriate subfloor preparation has been completed.
For application information refer to the relevant data sheet for specific adhesives.

CARPET

For open weave carpet, *Roberts/Polymer/Giltgrip carpet adhesive (Roberts 80 and Giltgrip 22) may be applied as per instruction, directly or double* stick to substrate. (For dense/non porous backed carpets a GEI specification will be required)

- *Needle Punch Carpet : Roberts 6037 or Giltgrip777 Fast Bond*

CARPET TILE

Polymer 999 or Giltgrip 66 (Intertac for Interface tiles) - refer to data sheet

CORK TILE

Polymer 1000 - refer to data sheet

VINYL FLOORING

Apply approved *Giltgrip Universal Premium, Giltgrip 44 Premium, Giltgrip 88, Polymer 265, Uzin 2000S vinyl adhesive* as per instruction.

- Always allow some tack up or double drop method depending on temperature and porosity of substrate to prevent bubbles occurring.
- A skim coat of NC888 feather is highly recommended on every installation to provide a substrate suitable for a vinyl finish. This will also assist in cure/tack up times of adhesive
- For all **non-porous substrates please contact GEI for specifications and the application of a preparatory cementious underlayment.**

VCT VINYL TILES (does NOT include Hot Press - Plank Type Tiles – refer to GEI for specific install instructions)

Polymer 999 or Giltgrip 66 - refer to data sheet

RUBBER FLOORING

Apply: Up to 4mm Rubber – *Uzin KE66 Resin reinforced adhesive*
Uzin KR430 – heavy duty commercial (sports floors etc)

TIMBER
On application only from GEIL. No installations can take place without written specifications from GEI.

For further information contact: www.giltedge.co.nz help@giltedge.co.nz

Direct technical: 0272689300

X100 GREEN CONCRETE CURE™

CURE AND HARDENER

TDS 107 – V2 JAN 2025

Description

X100 Green Concrete Cure™ is single pack colloidal silicate proprietary solution when applied correctly at the time of the concrete pour is an effective curing regime for concrete. With a performance equivalent to that of water pond curing, X100 Green Concrete Cure™ will significantly reduce the incidence of plastic and dry shrinkage cracking whilst providing a hardened, dust proof concrete.

Applied by low pressure spray apparatus immediately after the freshly placed concrete reaches initial set, X100 Green Concrete Cure™ penetrates the concrete leaving no film or residue on the surface of the concrete, therefore having no adverse effect on subsequent topical applications, providing improved flexibility and efficiencies to a project.

Typical Applications

Examples for areas of use are as follows: All concrete elements can be cured using X100 Green Concrete Cure™ including cast in-situ, pre-cast, shotcrete, decorative and coloured concretes.

Features and Benefits

Some features and benefits of X100 Green Concrete Cure™ include the following:

- Colloidal silicate used to cure concrete.
- Will cure concrete equal to water pond curing.
- Reduces plastic and dry shrinkage cracking.
- Provides a hardened, abrasion resistant, dust-proof surface.
- Retards efflorescence.
- Water based technology.
- Cost effective curing regime.
- Used on horizontal or vertical substrates.
- Doesn't form a membrane - After trade friendly
- Compatible with floor coverings and coating systems including line marking paints.
- Low VOC, environmentally friendly and user safe.
- UV Resistant.
- Minimum site disruption and trafficable after 2 hours.
- HACCP approved.
- Test reports available on request.

Oxtek Solutions Pty Ltd H/O
5/ 17-19 Miles Street, Mulgrave VIC 3170
Phone: +61 39798 7534 Email: reception@oxtek.com.au
www.oxtek.com.au

Gilt Edge Industries H/O
110 Antigua Street, Addington, Christchurch 8240
Phone: 0800 445 833 Email: help@giltedge.co.nz
www.giltedge.co.nz/protect-crete

X100 GREEN CONCRETE CURE™

CURE AND HARDENER

TDS 107 – V2 JAN 2025

Physical Properties

Appearance	Low viscosity greenish transparent liquid
pH	Ca. 11.3
Flash Point	Not applicable
Relative Density	Ca. 1.08 @ 20°C
Volatile Organic Compounds (VOC) Content	15g per Litre
Viscosity	Low
Odour	Almost none
Initial Boling Point / Boiling Range	>100°C @ 760 mm Hg
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limits	Not applicable
Auto-ignition Temperature	Product not self-igniting
Solubility	Fully miscible in water

Recommended Substrate Conditions & Preparation

Product Coverage Rates: Burnished or Steel Trowelled: Range 5m^2 – 8m^2 per litre.

Broom Finish or Open Surface: Range 5m^2 – 6.5m^2 per litre

Important Notes:

1. Areas of high porosity have a faster penetration rate. These areas appear dry immediately after spraying and will require additional product.
2. Do not apply on a frozen substrate or on a falling substrate temperature of below 3°C. Call for advice if applying during colder periods.
3. Do NOT apply if rain is forecast within 3 hours of proposed application. If rain occurs within this timeframe of applying the product, please call Oxtek Solutions for technical advice.
4. X100 Green Concrete Cure™ may etch glass/tiles or dull brushed and shiny aluminium and can be difficult to remove from other surfaces once it dries. Cover and mask surrounding surfaces or rinse immediately if sprayed.
5. Incidental skin contact should not be hazardous, but ingestion or eye contact should be avoided. It is recommended to wear gloves, eye protection and a painter's mask during application. Refer to MSDS available from www.oxtek.com.au.

Application Guidelines

In hot and windy conditions, the concrete surface temperature or wind may prematurely dry out the product before it has had adequate opportunity to penetrate the substrate to which it has been applied. It is advisable in such circumstances to mist-wet the surface with water and remove any puddles prior to application on the damp surface. Best practice hot weather concrete placement techniques should be adopted, and the use of Aliphatic alcohol is recommended and will not detrimentally affect the application and performance of X100 Green Concrete Cure™.

Application – After Intial Set:

Apply X100 Green Concrete Cure™ immediately after initial set with low-pressure non-atomising spray apparatus such as a pump-tank or battery pack sprayer, complete with fan spray nozzle. Holding spray tip (eg .019" - .024") 150mm from surface, apply X100 Green Cure™ at minimum rate of 5m² per litre with an overlapping spray pattern of 50%. Begin application at the lowest elevation. For example, walls and slopes should be applied side-to-side, from the bottom up.

After applying at the correct rate, continue to evenly distribute X100 Green Concrete Cure™ over the substrate surface (with a soft broom) not allowing puddle to form or remain. If after one hour the product has not been completely absorbed and puddles are still present, remove with a soft broom, water, or blower.

Please Note: Should site conditions require the surface to be walked on, for application, concrete should be allowed the time to adequately set, so as not to imprint or mark its surface during application.

Additional Notes:

1. The transparent green colour of X100 Green Concrete Cure™ is to provide a visual aid to application and will dissipate upon drying.
2. Restrict access to areas being treated as surface may be slippery until all product has dropped in or removed from surface.
3. Cleaning of the concrete substrate surface to remove these non-penetrative residues by pressure washing, should commence no earlier than 3 hours post completion of the X100 Green Concrete Cure™ application.

Caution: If X100 Green Concrete Cure™ comes into contact with glass or ceramic tiles it should be flushed with water and not be allowed to dry, since glass/tiles will etch. X100 Green Concrete Cure™ will dull the shine on shiny aluminum. Mask and protect any area not to be sprayed.

Additional Advice and Precautions:

1. Protect areas not intended for coverage. Do not walk product onto any adjacent surfaces as marking may be permanent.
2. Restrict access to areas being treated as surface may be slippery until all product has penetrated the substrate or been removed from surface.

Overcoat Timelines:

If applicable, please refer to the appropriate product manufacturers recommendations and guidelines in relation to surface preparation and application.

Subsequent Covering and Coatings

X100 Green Concrete Cure™ does not provide a vapour or moisture barrier for impervious floor coverings or coatings. Oxtek Solutions distributes and manufactures X200 Densi-Proof™ X220 Moisture Fix™ & X260 Medi-Vet that are designed for complete and permanent protection against vapour and water damage potential.

If your building has a finishes schedule for impervious flooring and or coatings, you should consider the use X260 Medi-Vet™ or X200 Densi-Proof™ at time of pour in lieu of X100 Green Concrete Cure™. You will achieve the same cure benefits and have a warranted moisture suppression system.

Alternatively, if it becomes apparent that a moisture barrier is required following the application of X100 Green Concrete Cure™, X220 Moisture Fix™ can be applied to the substrate with minimum surface preparation for a fully warranted moisture barrier system.

Refer to X200 Densi-Proof™, X220 Moisture Fix™ and X260 Medi-Vet™ TDS, available from www.oxtek.com.au.

Other Important Notes

The American Concrete Institute (ACI) defines curing as, "The process by which hydraulic-cement concrete matures and develops hardened properties over time as a result of the continued hydration of the cement in the presence of sufficient water and heat."

It is widely regarded within the concrete industry, that water pond curing is deemed as the best curing method available, however, it is often replaced with less effective membrane-forming methods in deference to the logistical and economic difficulties associated with water ponding.

X100 Green Concrete Cure™ conforms to and achieves the cure requirements of **NZS3109:1997** and **NZS3101: Part 1:2006**

Storage & Shelf Life

- Must be stored out of direct sunlight.
- Storage temperature range: Max 38°C to Min 3°C.
- Shelf life is 3 years if stored as above in original unopened containers.
- To avoid contamination, decanted product must not be returned to container.
- Recommended usage: within – 30 days of opening.

Contact

We have technical expertise and experience to help and consult on your future projects or assist your existing projects maintain time and budget.

Australia, UK, & Asia Contact Oxtek Solutions Head Office: Call +61 3 9798 7534 or email reception@oxtek.com.au.

New Zealand Contact:
Gilt Edge Industries call 0800 445 833 CHC: 03 379 7067 AKL: 09 443 7067 or email help@giltedge.co.nz.

NB: Concrete Substrates of 15 years or older will not be covered under an Oxtek Solutions warranty.

Available in 5, 15, 200 and 1,000 litre containers.

X200 DENSI-PROOF ™

PERMANENT MOISTURE CONTROL AND PROTECTION

TDS 200 – V8 JAN 2025

Description

X200 Densi-Proof™ a single pack one application spray on system that deeply penetrates new or existing concrete, provides curing, permanent waterproofing, and protection. X200 Densi-Proof conforms to the moisture suppressant requirements as per **NZAS1884-2013** and achieves the cure requirements of **NZS 3109:1997** & **NZS 3101:part 1 2006**.

The application of X200 Densi-Proof™ at time of the concrete pour will cure concrete to provide the hardened properties equivalent to that of water pond curing, permanently waterproof concrete from any direction, making the concrete impermeable and increasing its longevity whilst providing a penetrative moisture barrier system for impervious coatings and coverings.

Adopting the use of X200 Densi-Proof™ at time of the concrete pour as an effective curing regime, will significantly reduce the incidence of dry shrinkage cracking, providing a hardened, denser and dust proof concrete, compatible with subsequent flooring or coating applications.

Typical Applications

Examples for areas of use are as follows: basements, rooftops, balconies, swimming pools, roads, bridges, water infrastructure and concrete prior to application of topical coatings or coverings.

Features and Benefits

Some features and benefits of X200 Densi-Proof™ include the following:

- Colloidal silicate used to cure, densify, harden, and waterproof concrete.
- Permanently waterproofs concrete from any direction.
- Increases surface tensile & compressive strength.
- Reduces dry shrinkage cracking.
- Provides a hardened, abrasion resistant, dust-proof surface.
- Retards efflorescence.
- Stabilise concrete pH.
- Improved chemical resistance and protection.
- Used on horizontal or vertical substrates.
- Resists freeze-thaw.
- Moisture barrier for impervious coatings and coverings.
- LOW VOC, environmentally friendly and user safe. HACCP approved.
- Indefinite Shelf Life
- Will purge contamination if present in existing concrete.
- Doesn't form a membrane - After trade friendly
- Compatible with most floor coverings, coatings and line marking paints.
- UV Resistant.
- Minimum site disruption and trafficable after 2 hours.
- Test Reports Available on request.

Oxtek Solutions Pty Ltd H/O
5/ 17-19 Miles Street, Mulgrave VIC 3170
Phone: +61 39798 7534 Email: reception@oxtek.com.au
www.oxtek.com.au

Gilt Edge Industries H/O
110 Antigua Street, Addington, Christchurch 8240
Phone: 0800 445 833 Email: help@giltedge.co.nz
www.giltedge.co.nz/protect-crete

X200 DENSI-PROOF ™

PERMANENT MOISTURE CONTROL AND PROTECTION

TDS 200 – V8 JAN 2025

Physical Properties

Appearance	Low viscosity cloudy-white liquid
pH	Ca. 11.4
Flash Point	Not applicable
Relative Density	Ca. 1.10 @ 20°C
Volatile Organic Compounds (VOC) Con	<1g per Litre
Viscosity	Low
Odour	Almost none
Initial Boling Point / Boiling Range	>100°C @ 760 mm Hg
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limits	Not applicable
Auto-ignition Temperature	Product not self-igniting
Solubility	Fully miscible in water

Recommended Substrate Conditions & Preparation

Product Coverage Rates:

Freshly Placed Concrete:	Minimum 5m² per litre.
Existing Concrete:	Minimum 5m² per litre.

Important Notes:

1. Wax, paint, curing compounds or a burnished surface restricting access to concrete's interior must be chemically or mechanically removed for X200 Densi-Proof™ to penetrate the substrate.
2. To test for adequate porosity, apply droplets of water on the concrete surface, if the droplets do not penetrate the concrete within 2 minutes, then X200 Densi-Proof™ will not function as intended and may be ineffective.
3. Areas of high porosity have a faster penetration rate. These areas appear dry immediately after spraying and will require additional product.
4. Do not apply on a frozen substrate or on a falling substrate temperature of below 3°C. Call for advice if applying during colder periods.
5. Do NOT apply if rain is forecast within 3 hours.
6. Before applying any paint, adhesives, or any other coatings wait a minimum of 24 hours after application with X200 Densi-Proof™ (see Overcoat Timelines). Pressure wash or sand and clean, then check visually to be satisfied purging has completed (if required a second or subsequent coats may be necessary). For further help and advice call our office.
7. X200 Densi-Proof™ may etch glass/tiles or dull brushed and shiny aluminium and can be difficult to remove from other surfaces once it dries. Cover and mask surrounding surfaces or rinse immediately if sprayed.

8. Concrete being treated must be fit for purpose for the intended function of X200 Densi-Proof™ Structural cracks, active cracks, and faulty control and cold joints will not be repaired with a X200 Densi-Proof™ application.
9. We recommend the wearing of eye protection, gloves and a painter's face mask during application.

   Refer to MSDS available from www.oxtek.com.au.

Application Guidelines

In hot climates, mist-wet the surface with water and remove any puddles prior to application. Use best practice hot weather concrete placement techniques. The use of Aliphatic alcohol is recommended in hot and windy conditions and will not detrimentally affect the application and performance of X200 Densi-Proof™.

Already-Set Concrete:

X200 Densi-Proof™ is to be applied to a clean and absorbent substrate from any standing or pooling water on the surface. Please note: on occasions, the concrete may be of poor quality and be very porous, which may require additional product to ensure that there is enough product to complete the capillary chemical gel forming reaction.

At Time of Pour:

X200 Densi-Proof™ is ideally applied to the newly-poured concrete surface as soon as is practical following its surface finishing phase. Should site conditions require the surface to be walked on, for application, concrete should be allowed the time to adequately set, so as not to imprint or mark its surface during application. Please Note: If application is more than 4 hours after initial set, the benefits of using this product as an effective curing regime will be reduced, subject to climatic conditions.

Application:

Apply X200 Densi-Proof™ using low-pressure non-atomising spray apparatus such as a pump-tank or battery pack sprayer, complete with fan spray nozzle or by airless spray unit set at 800psi. Holding spray tip (eg .019" - .024") 150mm from surface, apply X200 Densi-Proof™ at minimum rate of 5m² per litre with an overlapping spray pattern of 50%. Using a soft broom sweep and spread-out puddled product as it penetrates.

Note:

Always begin application at the lowest elevation. For example, walls and slopes should be applied side-to-side, from the bottom up.

Do not allow product to puddle dry on the surface. If product gels on the surface remove with a squeegee.

Excess Product Removal
Should non-penetrative residues of the X200 Denis-Proof product fail to be removed from the substrate surface in-line with the application methodologies documented above, a slippery gel may form which will require to be removed to avoid a potential slip hazard.

A simple cleaning by pressure washing (domestic or garden nozzle spray) and / or scrubbing to assist with removal of larger build up areas of gelled product by brush should be undertaken, followed by squeegeeing or hosing off, the waste product from the concrete surface.

Cleaning of the concrete substrate surface to remove these non-penetrative residues by pressure washing, should commence no earlier than 3 hours post completion of the X200 Densi-Proof application.

Overcoat Timelines:

Floor coverings and coatings can be installed 14 days from the date of concrete placement and X200 Densi-Proof™ application.

If the X200 Densi-Proof™ is applied to a substrate that is older than 14 days, floor coverings and coatings can be installed 24 hours post application..

Subsequent Coverings and Coatings:

A simple preparation of sanding or blue pad is recommended to remove any laitance, efflorescence or any purged contamination off the concrete surface to prepare the substrate for any coatings, sealers or flooring systems. Always follow the coating, adhesive or covering manufacturers recommendations and requirements.

Hot and Cold Temperatures:

In hot or windy conditions, the concrete surface temperature or wind may dry out the product prematurely before it has a chance to drop in thoroughly, in this case it is advisable to mist spray the surface with water and apply X200 Densi-Proof™ whilst the surface is damp but not puddled. This also helps with a relaxation of surface tension allowing a more efficient and faster penetration as well as premature evaporation or drying out. X200 Densi-Proof™ should not be applied if the ambient temperature is below 3^0C and falling. X200 Densi-Proof™ is not affected at all by temperature change after 24 hours, not even in freeze thaw conditions.

Additional Advice and Precautions:

1. If the existing concrete's moisture content is higher than 75%, all of the above procedures should be followed, however, there is normally a problem somewhere, like broken pipes, hydrostatic pressure etc for old concrete to remain this wet. This cause should be investigated. Contact Oxtek for further information as an additional coat or change of application procedure may be required.
2. Protect areas not intended for coverage. Do not walk product onto any adjacent surfaces as marking may be permanent.
3. Restrict access to areas being treated as surface may be slippery until all product has penetrated the substrate or been removed from surface.

Storage & Shelf Life

- Must be stored out of direct sunlight.
- Storage temperature range: Max 38°C to Min 3°C.
- Shelf life is 3 years if stored as above in original unopened containers.
- To avoid contamination, decanted product must not be returned to container.
- Recommended usage: within – 30 days of opening.

Warranty Request & Registration

Warranties are available on request subject to satisfying our Terms & Conditions and by agreeing to our product application criteria. An issued warranty is project specific and will require a consultation and a registered specification number. A request for warranty must be registered prior to commencement of the project.

We have technical expertise and experience to help and consult on your future projects or assist your existing projects maintain time and budget.

Australia, UK, & Asia Contact Oxtek Solutions Head Office: Call +61 3 9798 7534 or email reception@oxtek.com.au.

New Zealand Contact:
Gilt Edge Industries call 0800 445 833 CHC: 03 379 7067 AKL: 09 443 7067 or email help@giltedge.co.nz.

NB: Concrete Substrates of 15 years or older will not be covered under an Oxtek Solutions warranty.

Available in 5, 15, 200 and 1,000 litre containers.

X220 MOISTURE FIX®

PERMANENT MOISTURE CONTROL

TDS 220 – V8 JAN 2025

Description

X220 Moisture Fix® a single pack one application spray on or pour and broom system that deeply penetrates new or existing concrete, provides curing, permanent waterproofing, and protection. X220 Moisture Fix® can be applied to existing concrete with a high moisture content.

The application of X220 Moisture Fix® at time of the concrete pour will cure concrete to provide the hardened properties equivalent to that of water pond curing, permanently waterproof concrete from any direction, making the concrete impermeable and increasing its longevity whilst providing a penetrative moisture barrier system for impervious coatings and coverings. X220 Moisture Fix conforms to the moisture suppressant requirements as per NZAS1884-2013 and achieves the cure requirements of NZS 3109:1997 & NZS 3101:part 1 2006.

Adopting the use of X220 Moisture Fix® at time of the concrete pour as an effective curing regime, will significantly reduce the incidence of dry shrinkage cracking, providing a hardened, denser and dust proof concrete, compatible with subsequent flooring or coating applications.

Typical Applications

Examples for areas of use are as follows: Concrete substrates prior to application of topical coatings or coverings.

Features and Benefits

Some features and benefits of X220 Moisture Fix® include the following:

- Colloidal silicate used to cure, harden, and densify concrete.
- Permanently waterproofs concrete from any direction.
- Makes concrete impermeable, increasing longevity.
- Increases surface tensile & compressive strength.
- Reduces dry shrinkage cracking.
- Provides a hardened, abrasion resistant, dust-proof surface.
- Retards efflorescence.
- Stabilises pH.
- Improved chemical resistance and protection.
- Used on horizontal or vertical substrates.
- Low VOC, environmentally friendly and user safe. HACCP approved.
- Will purge contamination if present in existing concrete.
- Doesn’t form a membrane - After trade friendly, (Epoxy, Adhesives, Screeds, Levelling Compounds)
- Compatible with most floor coverings, coatings and line marking paints.
- UV Resistant.
- Minimum site disruption and trafficable after 2 hours.
- Test reports available on request.

Oxtek Solutions Pty Ltd H/O
5/ 17-19 Miles Street, Mulgrave VIC 3170
Phone: +61 39798 7534 Email: reception@oxtek.com.au
www.oxtek.com.au

Gilt Edge Industries H/O
110 Antigua Street, Addington, Christchurch 8240
Phone: 0800 445 833 Email: help@giltedge.co.nz
www.giltedge.co.nz/protect-crete

X220 MOISTURE FIX®

PERMANENT MOISTURE CONTROL

TDS 220 – V8 JAN 2025

Physical Properties

Appearance	Low viscosity clear-blue liquid
pH	Ca. 11.4
Flash Point	Not applicable
Relative Density	Ca. 1.10 @ 20°C
Volatile Organic Compounds (VOC) Con	1g per Litre
Viscosity	Low
Odour	Almost none
Initial Boling Point / Boiling Range	>100°C @ 760 mm Hg
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limits	Not applicable
Auto-ignition Temperature	Product not self-igniting
Solubility	Fully miscible in water

Recommended Substrate Conditions & Preparation

Product Coverage Rates:	Freshly Placed Concrete:	By Spray	Minimum 5m² per litre.
	Existing Concrete:	By Spray	Minimum 5m² per litre.
		By Pour	Minimum 4m² per litre.

Important Notes:

1. Wax, paint, curing compounds or a burnished surface restricting access to concrete's interior must be chemically or mechanically removed for X220 Moisture Fix® to penetrate the substrate.
2. To test for adequate porosity, apply droplets of water on the concrete surface, if the droplets do not penetrate the concrete within 2 minutes, then X220 Moisture Fix® will not function as intended and may be ineffective.
3. Areas of high porosity have a faster penetration rate. These areas appear dry immediately after spraying and will require additional product.
4. Do not apply on a frozen substrate or on a falling substrate temperature of below 3°C. Call for advice if applying during colder periods.
5. Do NOT apply if rain is forecast within 3 hours.
6. Before applying any paint, adhesives, or any other coatings, wait a minimum of 24 hours after the application of X220 Moisture Fix® (see Overcoat Timelines). Pressure wash or abrade and clean, then check visually to be satisfied purging has completed (if required, a second or subsequent coats may be necessary). For further help and advice call our office.

Oxtek Solutions Pty Ltd H/O
5/ 17-19 Miles Street, Mulgrave VIC 3170
Phone: +61 39798 7534 Email: reception@oxtek.com.au
www.oxtek.com.au

Gilt Edge Industries H/O
110 Antigua Street, Addington, Christchurch 8240
Phone: 0800 445 833 Email: help@giltedge.co.nz
www.giltedge.co.nz/protect-crete

7. If treating an existing contaminated slab, subsequent applications of X220 Moisture Fix® may be required to purge or lock up foreign material before the concrete is suitable for coating or covering.
8. Concrete being treated must be fit for purpose for the intended function of X220 Moisture Fix®. Structural cracks, active cracks, and faulty control and cold joints will not be repaired with a X220 Moisture Fix® application.
9. X220 Moisture Fix™ may etch glass/tiles or dull brushed and shiny aluminium and can be difficult to remove from other surfaces once it dries. Cover and mask surrounding surfaces or rinse immediately if sprayed.
10. We recommend the wearing of eye protection, gloves and painter's face mask during application.

Refer to MSDS available from www.oxtek.com.au.

Application Guidelines

Note:

In hot climates, mist-wet the surface with water and remove any puddles prior to application. Use best practice hot weather concrete placement techniques. The use of Aliphatic alcohol is recommended in hot and windy conditions and will not detrimentally affect the application and performance of X220 Moisture Fix®.

On Already-Set Concrete:

Apply X220 Moisture Fix® is to be applied to a clean and absorbent substrate from any standing or pooling water on the surface. Please note: on occasions, the concrete may be of poor quality and be very porous, which may require additional product to ensure that there is enough product to complete the capillary chemical gel forming reaction.

At Time of Pour:

X220 Moisture Fix® is ideally applied to the newly-poured concrete surface as soon as is practical following its surface finishing phase. Should site conditions require the surface to be walked on, for application, concrete should be allowed the time to adequately set, so as not to imprint or mark its surface during application. Please Note: If application is more than 4 hours after initial set, the benefits of using this product as an effective curing regime will be reduced (subject to climatic conditions).

Application:

Apply X220 Moisture Fix® using low-pressure non-atomising spray apparatus such as a pump-tank or battery pack sprayer, complete with fan spray nozzle or by airless spray unit set at 800psi. Holding spray tip (eg .019" - .024") 150mm from surface, apply X220 Moisture Fix™ at minimum rate of 5m² per litre with an overlapping spray pattern of 50%. Using a soft broom sweep and spread-out puddled product as it penetrates.

Apply X220 Moisture Fix® by pour and spread (existing substrate only). It is important that the product is poured onto the prepared substrate at a minium rate 4m² per litre and is distributed evenly by continuous working by soft broom in all directions to ensure the product is presented to all surface profiles. There is no need to put any pressure on the broom as it is only used to distribute the product evenly and if pressure is applied it tends to have the opposite effect in not leaving enough product on the surface.

Note:

Always begin application at the lowest elevation. For example, walls and slopes should be applied side-to-side, from the bottom up.

Do not allow product to puddle dry on the surface. If product gels on the surface remove with a squeegee.

Excess Product Removal

Should non-penetrative residues of the X220 Moisture Fix® product fail to be removed from the substrate surface in-line with the application methodologies documented above, a slippery gel may form which will require to be removed to avoid a potential slip hazard.

A simple cleaning by pressure washing (domestic or garden nozzle spray) and / or scrubbing to assist with removal of larger build up areas of gelled product by brush should be undertaken, followed by squeegeeing or hosing off, the waste product from the concrete surface.

Cleaning of the concrete substrate surface to remove these non-penetrative residues by pressure washing, should commence no earlier than 3 hours post completion of the X220 Moisture Fix® application."

Overcoat Timelines:

Floor coverings and coatings can be installed 14 days from the date of concrete placement and X220 Moisture Fix® application.

If the X220 Moisture Fix® is applied to a substrate that is older than 14 days, floor coverings and coatings can be installed 24 hours post application.

Subsequent Coverings and Coatings:

A simple preparation of sanding or blue pad is recommended to remove any laitance, efflorescence or any purged contamination off the concrete surface to prepare the substrate for any coatings, sealers or flooring systems. Always follow the coating, adhesive or covering manufacturers recommendations and requirements.

Hot and Cold Temperatures:

In hot or windy conditions, the concrete surface temperature or wind may dry out the product prematurely before it has a chance to drop in thoroughly. In this case it is advisable to mist spray the surface with water and apply X220 Moisture Fix® whilst the surface is damp but not puddled. This also helps with a relaxation of surface tension allowing a more efficient and faster penetration as well as premature evaporation or drying out. X220 Moisture Fix® should not be applied if the ambient temperature is below 3^0C and falling. X220 Moisture Fix® is not affected at all by temperature change after 24 hours, not even in freeze thaw conditions.

Additional Advice and Precautions:

1. If the existing concrete's moisture content is higher than 75%, all of the above procedures should be followed, however, there is normally a problem somewhere, like broken pipes, hydrostatic pressure etc for old concrete to remain this wet. This cause should be investigated. Contact Oxtek for further information as an additional coat or change of application procedure may be required.
2. Protect areas not intended for coverage. Do not walk product onto any adjacent surfaces as marking may be permanent.
3. Restrict access to areas being treated as surface may be slippery until all product has penetrated the substrate or been removed from surface.
4. Do not apply by dipping broom or brush directly into the container as this will contaminate the product. Only pour and spread, or spray. Do not roller apply.

Storage & Shelf Life

- Must be stored out of direct sunlight.
- Storage temperature range: Max 38°C to Min 3°C.
- Shelf life is 3 years if stored as above in original unopened containers.
- To avoid contamination, decanted product must not be returned to container.
- Recommended usage: within – 30 days of opening.

Warranty Request & Registration

Warranties are available on request subject to satisfying our Terms & Conditions and by agreeing to our product application criteria. An issued warranty is project specific and will require a consultation and a registered specification number. A request for warranty must be registered prior to commencement of the project.

We have technical expertise and experience to help and consult on your future projects or assist your existing projects maintain time and budget.

Australia, UK, & Asia Contact Oxtek Solutions Head Office: Call +61 3 9798 7534 or email reception@oxtek.com.au.

New Zealand Contact:
Gilt Edge Industries call 0800 445 833 CHC: 03 379 7067 AKL: 09 443 7067 or email help@giltedge.co.nz.

NB: Concrete Substrates of 15 years or older will not be covered under an Oxtek Solutions warranty.

Available in 5, 15, 200 and 1,000 litre containers.

X230 DENSI-PROOF REPELLER ™

PERMANENT MOISTURE CONTROL AND SURFACE PROTECTION

TDS 230 – V9 JAN 2025

Description

X230 Densi-Proof Repeller™ a single pack one application spray on system that deeply penetrates new or existing concrete, provides curing, permanent waterproofing, and surface protection. The application of X230 Densi-Proof Repeller™ at time of the concrete pour will cure concrete to provide the hardened properties equivalent to that of water pond curing, permanently waterproof concrete from any direction, making the concrete impermeable and increasing its longevity whilst providing surface protection from contamination.

Adopting the use of X230 Densi-Proof Repeller™ at time of the concrete pour as an effective curing regime, will significantly reduce the incidence of dry shrinkage cracking, providing a hardened, denser and dust proof concrete, compatible with line marking paint. X230 Densi-Proof Repeller conforms to the moisture suppressant requirements as per **NZAS1884-2013** and achieves the cure requirements of **NZS 3109:1997** & **NZS 3101:part 1 2006**.

X230 Densi-Proof Repeller™ provides enhanced surface protection and ease of cleaning against acids, oils, water-based stains, chemicals, body fluids, wine, grease, and others.

Typical Applications

Examples for areas of use are as follows: Internal or external exposed natural concrete, rooftop & basement carparks, restaurants, outdoor eating areas, garden centres, warehouses, factories, breweries, wineries.

Features and Benefits

Some features and benefits of X230 Densi-Proof Repeller™ include the following:

- Colloidal silicate used to cure, densify, harden, and waterproof concrete.
- Permanently waterproofs concrete from any direction.
- Increases surface tensile & compressive strength.
- Reduces dry shrinkage cracking.
- Provides a hardened, abrasion resistant, dust-proof surface.
- Retards efflorescence.
- Stabilises pH.
- Resists surface staining.
- Reduced tyre noise and marks.
- Enhance traction quality.
- Improved chemical resistance and protection.
- Eliminates mould and odours.
- Low VOC, environmentally friendly and user safe.
- Used on horizontal or vertical substrates.
- Doesn't form a membrane - After trade friendly.
- Compatible with line marking paints and other coating products.
- UV Resistant.
- Resist freeze thaw damage.
- Minimum site disruption and trafficable after 2 hours.
- HACCP approved.
- Test reports available on request.

Oxtek Solutions Pty Ltd H/O
5/ 17-19 Miles Street, Mulgrave VIC 3170
Phone: +61 39798 7534 Email: reception@oxtek.com.au
www.oxtek.com.au

Gilt Edge Industries H/O
110 Antigua Street, Addington, Christchurch 8240
Phone: 0800 445 833 Email: help@giltedge.co.nz
www.giltedge.co.nz/protect-crete

X230 DENSI-PROOF REPELLER ™

PERMANENT MOISTURE CONTROL AND SURFACE PROTECTION

TDS 230 – V9 JAN 2025

Physical Properties

Appearance	Low viscosity clear liquid
pH	Ca. 11.4
Flash Point	Not applicable
Relative Density	Ca. 1.13 @ 20°C
Volatile Organic Compounds (VOC) Con	1g per Litre
Viscosity	Low
Odour	Almost none
Initial Boling Point / Boiling Range	>100°C @ 760 mm Hg
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limits	Not applicable
Auto-ignition Temperature	Product not self-igniting
Solubility	Fully miscible in water

Recommended Substrate Conditions & Preparation

Product Coverage Rates: Freshly Placed Concrete: Minimum 5m² per litre.

Existing Concrete: Minimum 5m² per litre.

Important Notes:

1. Wax, paint, curing compounds or a burnished surface restricting access to concrete's interior must be chemically or mechanically removed for X230 Densi-Proof Repeller™ to penetrate the substrate.
2. To test for adequate porosity, apply droplets of water on the concrete surface, if the droplets do not penetrate the concrete within 2 minutes, then X230 Densi-Proof Repeller™ will not function as intended and may be ineffective.
3. Areas of high porosity have a faster penetration rate. These areas appear dry immediately after spraying and will require additional product.
4. Do not apply on a frozen substrate or on a falling substrate temperature of below 3°C. Call for advice if applying during colder periods. Do NOT apply if rain is forecast within 24 hours.
5. When applying line marking paint on X230 Densi-Proof Repeller™ treated concrete always follow the paint manufacturers surface preparation requirements (see Overcoat Timelines).
6. X230 Densi-Proof Repeller™ may etch glass/tiles or dull brushed and shiny aluminium and can be difficult to remove from other surfaces once it dries. Cover and mask surrounding surfaces or rinse immediately if sprayed.

7. Concrete being treated must be fit for purpose for the intended function of X230 Densi-Proof™ Repeller Structural cracks, active cracks, and faulty control and cold joints will not be repaired with a X230 Densi-Proof Repeller™ application.
8. We recommend the wearing of eye protection, gloves, and a painter's face mask during application.

   Refer to MSDS available from www.oxtek.com.au.

Application Guidelines

Note:

In hot climates, mist-wet the surface with water and remove any puddles prior to application. Use best practice hot weather concrete placement techniques. The use of Aliphatic alcohol is recommended in hot and windy conditions and will not detrimentally affect the application and performance of X230 Densi-Proof Repeller™.

On Already-Set Concrete:

X230 Densi-Proof Repeller™ is to be applied to a clean and absorbent substrate from any standing or pooling water on the surface. Please note: on occasions, the concrete may be of poor quality and be very porous, which may require additional product to ensure that there is enough product to complete the capillary chemical gel forming reaction.

At Time of Pour:

X230 Densi-Proof Repeller™ is ideally applied to the newly-poured concrete surface as soon as is practical following its surface finishing phase. Should site conditions require the surface to be walked on, for application, concrete should be allowed the time to adequately set, so as not to imprint or mark its surface during application.

Please Note: If application is more than 4 hours after initial set, the benefits of using this product as an effective curing regime will be reduced (subject to climatic conditions).

Recommended minimum coverage rate is 5m² per litre.

Application:

Apply X230 Densi-Proof Repeller™ using low-pressure non-atomising spray apparatus such as a pump-tank or battery pack sprayer, complete with fan spray nozzle or by airless spray unit set at 800psi. Holding spray tip (eg .019" - .024") 150mm from surface, apply X230 Densi-Proof Repeller™ at minimum rate of 5m² per litre with an overlapping spray pattern of 50%. Using a soft broom sweep and spread-out puddled product as it penetrates.

Note: Always begin application at the lowest elevation. For example, walls and slopes should be applied side-to-side, from the bottom up.

Do not allow product to puddle dry on the surface. If product gels on the surface remove with a squeegee.

Application to vertical substrates:

Please contact Oxtek Solutions to confirm suitability for use, and for guidance on surface preparation requirements and application methodology.

Caution: For recently placed and unused concrete only.

For existing, soiled, used and old concrete a two-parts sytems approached should be adopted for best results. X200 Densi-Proof™ or X220 Moisture Fix® will decontaminate and purge deep seated unwanted substance to the substrate surface which will require to be removed prior to applying the X300 Repeller™ invisible penetrative sealer for additional surface protection. Please refer to the relevant product TDS available from www.oxtek.com.au

Excess Product Removal:

Should non-penetrative residues of the X230 Densi-Proof Repeller™ product fail to be removed from the substrate surface in-line with the application methodologies documented above, a slippery gel may form which will require to be removed to avoid a potential slip hazard.

A simple cleaning by pressure washing (domestic or garden nozzle spray) and / or scrubbing to assist with removal of larger build up areas of gelled product by brush should be undertaken, followed by squeegeeing or hosing off, the waste product from the concrete surface.

Cleaning of the concrete substrate surface to remove these non-penetrative residues by pressure washing, should commence no earlier than 24 hours post completion of the X230 Densi-Proof Repeller™ application.

Overcoat Timelines:

Line marking paint or other coating products can be applied 14 days from the date of concrete placement and X230 Densi-Proof Repeller™ application.

If the X230 Densi-Proof Repeller™ is applied to a substrate that is older than 14 days, line marking paint or other coating products can be installed 24 hours post application.

Subsequent Coatings:

A simple preparation of sanding or blue pad is recommended to remove any laitance, efflorescence or any contamination off the concrete surface to prepare the substrate for any line marking paint or other coating product. Always follow the line marking paint or coating product manufacturers recommendations and requirements.

Hot and Cold Temperatures:

In hot or windy conditions, the concrete surface temperature or wind may dry out the product prematurely before it has a chance to drop in thoroughly, in this case it is advisable to mist spray the surface with water and apply X230 Densi-Proof Repeller™ whilst the surface is damp but not puddled. This also helps with a relaxation of surface tension allowing a more efficient and faster penetration as well as premature evaporation or drying out. X230 Densi-Proof Repeller™ should not be applied if the ambient temperature is below 3^0C and falling. X230 Densi-Proof Repeller™ is not affected at all by temperature change after 24 hours, not even in freeze thaw conditions.

Additional Advice and Precautions:

1. Protect areas not intended for coverage. Do not walk product onto any adjacent surfaces as marking may be permanent.
2. Restrict access to areas being treated as surface may be slippery until all product has penetrated the substrate or been removed from surface.

Maintenance

Spillages:

All spillages should be removed as quickly as possible. This is good practice in terms of Health and Safety and the general upkeep of the treated surface. If spillages such as oil and grease are left longer than 24 hours on the surface some staining may occur.

Cleaning:

All areas should be cleaned on a regular and ongoing basis, by light scrubbing with warm water and detergent.

Repairs:

Localised repairs can easily be undertaken to damaged or heavily abraded areas using X300 Repeller™. This can be applied with a low-pressure spray by maintenance personnel – dry in approximately 30 minutes. Please note that although X300 Repeller™ is an invisible penetrative densifier and sealer, it is likely that some darkening may appear on the treated surface, however this will have no detrimental effect on the performance of the product.

Storage & Shelf Life

- Must be stored out of direct sunlight.
- Storage temperature range: Max 38°C to Min 3°C.
- Shelf life is 3 years if stored as above in original unopened containers
- To avoid contamination, decanted product must not be returned to container.
- Recommended usage: within – 30 days of opening.

Warranty Request & Registration

Warranties are available on request subject to satisfying our Terms & Conditions and by agreeing to our product application criteria. An issued warranty is project specific and will require a consultation and a registered specification number. A request for warranty must be registered prior to commencement of the project.

We have technical expertise and experience to help and consult on your future projects or assist your existing projects maintain time and budget.

Australia, UK, & Asia Contact Oxtek Solutions Head Office: Call +61 3 9798 7534 or email reception@oxtek.com.au

New Zealand Contact:
Gilt Edge Industries call 0800 445 833 CHC: 03 379 7067 AKL: 09 443 7067 or email help@giltedge.co.nz.

NB: Concrete Substrates of 15 years or older will not be covered under an Oxtek Solutions warranty.

Available in 5, 15, 200 and 1,000 litre containers.

X260 MEDI-VET™

MOISTURE CONTROL WITH ANTIMICROBIAL FORMULA

TDS 260 – V9 JAN 2025

Description

X260 Medi-Vet™ a single pack one application spray on system that deeply penetrates new or existing concrete, provides curing, permanent waterproofing. With PROVEN TESTED safe silver ion antimicrobial additive X260 Medi-Vet™ will protect concrete from E coli & MRSA. The application of X260 Medi-Vet™ at time of the concrete pour will cure concrete to provide the hardened properties equivalent to that of water pond curing, permanently waterproof concrete from any direction, making the concrete impermeable and increasing its longevity whilst providing a penetrative moisture barrier system for impervious coatings and coverings.

Adopting the use of X260 Medi-Vet™ at time of the concrete pour as an effective curing regime, will significantly reduce the incidence of dry shrinkage cracking, providing a hardened, denser and dust proof concrete, compatible with subsequent flooring or coating applications. X260 Medi-Vet conforms to the moisture suppressant requirements as per **NZAS1884-2013** and achieves the cure requirements of **NZS 3109:1997** & **NZS 3101:part 1 2006**.

Typical Applications

Examples for areas of use are as follows: hospitals, aged care facilities, schools, hospitality, food preparation, dairy farms, animal enclosures, and concrete prior to application of topical coatings or coverings.

Features and Benefits

Some features and benefits of X260 Medi-Vet™ include the following:

- Antimicrobial formulation offers protection from E. coli & MRSA.
- Colloidal silicate used to cure, densify, and harden.
- Permanently waterproofs concrete from any direction.
- Increases surface tensile & compressive strength.
- Reduces dry shrinkage cracking.
- Provides a hardened, abrasion resistant, dust-proof surface.
- Retards efflorescence.
- Stabilises pH.
- Minimum site disruption and trafficable after 3 hours.
- Improved chemical resistance and protection.
- Low VOC, environmentally friendly and user safe. HACCP approved.
- Will purge contamination if present.
- Used on horizontal or vertical substrates.
- Doesn't form a membrane - After trade friendly.
- Compatible with most floor coverings, coatings and line marking paints.
- UV Resistant.
- Test reports available on request.

Oxtek Solutions Pty Ltd H/O
5/ 17-19 Miles Street, Mulgrave VIC 3170
Phone: +61 39798 7534 Email: reception@oxtek.com.au
www.oxtek.com.au

Gilt Edge Industries H/O
110 Antigua Street, Addington, Christchurch 8240
Phone: 0800 445 833 Email: help@giltedge.co.nz
www.giltedge.co.nz/protect-crete

X260 MEDI-VET™

MOISTURE CONTROL WITH ANTIMICROBIAL FORMULA

TDS 260 – V9 JAN 2025

Physical Properties

Appearance	Low viscosity clear liquid
pH	Ca. 11.4
Flash Point	Not applicable
Relative Density	Ca. 1.10 @ 20°C
Volatile Organic Compounds (VOC) Con	<1g per Litre
Viscosity	Low
Odour	Almost none
Initial Boling Point / Boiling Range	>100°C @ 760 mm Hg
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limits	Not applicable
Auto-ignition Temperature	Product not self-igniting
Solubility	Fully miscible in water

Recommended Substrate Conditions & Preparation

Product Coverage Rates:

Freshly Placed Concrete:	Minimum 5m² per litre.
Existing Concrete:	Minimum 5m² per litre.

Important Notes:

1. Wax, paint, curing compounds or a burnished surface restricting access to concrete's interior must be chemically or mechanically removed for X260 Medi-Vet® to penetrate the substrate.
2. To test for adequate porosity, apply droplets of water on the concrete surface, if the droplets do not penetrate the concrete within 2 minutes, then X260 Medi-Vet® will not function as intended and may be ineffective.
3. Areas of high porosity have a faster penetration rate. These areas appear dry immediately after spraying and will require additional product.
4. Do not apply on a frozen substrate or on a falling substrate temperature of below 3°C. Call for advice if applying during colder periods.
5. Do NOT apply if rain is forecast within 3 hours.
6. Before applying any paint, adhesives, or any other coatings, wait 24 hours after application with X260 Medi-Vet® (see Overcoat Timelines). Pressure wash or sand and clean, then check visually to be satisfied purging has completed (if required a second or subsequent coats may be necessary). For further help and advice call our office.
   Concrete being treated must be fit for purpose for the intended function of X260 Medi-Vet®. Structural cracks, active cracks, and faulty control and cold joints will not be repaired with a X260 Medi-Vet® application.
7. X260 Medi-Vet® may etch glass/tiles or dull brushed and shiny aluminium and can be difficult to remove from other surfaces once it dries. Cover and mask surrounding surfaces or rinse immediately if sprayed.

8. We recommend the wearing of eye protection, gloves and a painter's face mask during application.

   Refer to MSDS available from www.oxtek.com.au.

Application Guidelines

Note:

In hot climates, mist-wet the surface with water and remove any puddles prior to application. Use best practice hot weather concrete placement techniques. The use of Aliphatic alcohol is recommended in hot and windy conditions and will not detrimentally affect the application and performance of X260 Medi-Vet®.

On Already-Set Concrete:

X260 Medi-Vet® is to be applied to a clean and absorbent substrate from any standing or pooling water on the surface. Please note: on occasions, the concrete may be of poor quality and be very porous, which may require additional product to ensure that there is enough product to complete the capillary chemical gel forming reaction.

At Time of Pour:

X260 Medi-Vet® is ideally applied to the newly-poured concrete surface as soon as is practical following its surface finishing phase. Please Note: If application is more than 4 hours after initial set, all benefits of using this product as an effective curing regime will be reduced. Should site conditions require the surface to be walked on, for application, concrete should be allowed the time to adequately set, so as not to imprint or mark its surface during application.

Please Note: If application is more than 4 hours after initial set, the benefits of using this product as an effective curing regime will be reduced.

Application:

Apply X260 Medi-Vet® using low-pressure non-atomising spray apparatus such as a pump-tank or battery pack sprayer, complete with fan spray nozzle or by airless spray unit set at 800psi. Holding spray tip (eg .019" - .024") 150mm from surface, apply X260 Medi-Vet® at minimum rate of 5m² per litre with an overlapping spray pattern of 50%. Using a soft broom sweep and spread-out puddled product as it penetrates.

Note:

Always begin application at the lowest elevation. For example, walls and slopes should be applied side-to-side, from the bottom up.

Do not allow product to puddle dry on the surface. If product gels on the surface remove with a squeegee.

Excess Product Removal:

Should non-penetrative residues of the X260 Medi-Vet® product fail to be removed from the substrate surface in-line with the application methodologies documented above, a slippery gel may form which will require to be removed to avoid a potential slip hazard.

A simple cleaning by pressure washing (domestic or garden nozzle spray) and / or scrubbing to assist with removal of larger build up areas of gelled product by brush should be undertaken, followed by squeegeeing or hosing off, the waste product from the concrete surface.

Cleaning of the concrete substrate surface to remove these non-penetrative residues by pressure washing, should commence no earlier than 3 hours post completion of the X260 Medi-Vet® application.

Overcoat Timelines:

Floor coverings and coatings can be installed 14 days from the date of concrete placement and X260 Medi-Vet® application.

If the X260 Medi-Vet™ is applied to a substrate that is older than 14 days, floor coverings and coatings can be installed 24 hours post application.

Subsequent Coverings and Coatings:

A simple preparation of sanding or blue pad is recommended to remove any laitance, efflorescence or any purged contamination off the concrete surface to prepare the substrate for any coatings, sealers or flooring systems. Always follow the coating, adhesive or covering manufacturers recommendations and requirements.

Hot and Cold Temperatures:

In hot or windy conditions, the concrete surface temperature or wind may dry out the product prematurely before it has a chance to drop in thoroughly, in this case it is advisable to mist spray the surface with water and apply X260 Medi-Vet® whilst the surface is damp but not puddled. This also helps with a relaxation of surface tension allowing a more efficient and faster penetration as well as premature evaporation or drying out. X260 Medi-Vet® should not be applied if the ambient temperature is below 3^0C and falling. X260 Medi-Vet® is not affected at all by temperature change after 24 hours, not even in freeze thaw conditions.

Additional Advice and Precautions:

1. If the existing concrete's moisture content is higher than 75%, all of the above procedures should be followed, however, there is normally a problem somewhere, broken pipes, hydrostatic pressure etc for old concrete to remain this wet. This cause should be investigated. Contact Oxtek for further information as an additional coat or change of application procedure may be required.

2. Protect areas not intended for coverage. Do not walk product onto any adjacent surfaces as marking may be permanent.
3. Restrict access to areas being treated as surface may be slippery until all product has penetrated the substrate or been removed from surface.

Storage & Shelf Life

- Must be stored out of direct sunlight.
- Storage temperature range: Max 38°C to Min 3°C.
- Shelf life is 3 years if stored as above in original unopened containers.
- To avoid contamination, decanted product must not be returned to container.
- Recommended usage: within – 30 days of opening.

Warranty Request & Registration

Warranties are available on request subject to satisfying our Terms & Conditions and by agreeing to our product application criteria. An issued warranty is project specific and will require a consultation and a registered specification number. A request for warranty must be registered prior to commencement of the project.

We have technical expertise and experience to help and consult on your future projects or assist your existing projects maintain time and budget.

Australia, UK, & Asia Contact Oxtek Solutions Head Office: Call +61 3 9798 7534 or email reception@oxtek.com.au.

New Zealand Contact:
Gilt Edge Industries call 0800 445 833 CHC: 03 379 7067 AKL: 09 443 7067 or email help@giltedge.co.nz.

NB: Concrete Substrates of 15 years or older will not be covered under an Oxtek Solutions warranty.

Available in 5, 15, 200 and 1,000 litre containers.

X260 MEDI-VET™

MOISTURE CONTROL WITH ANTIMICROBIAL FORMULA

TDS 260 – V9 JAN 2025

Proven Anti-Microbial Performance Testing

The anti-microbial performance of X260 Medi-Vet® is confirmed by independent laboratory testing to the international standards (JIS and ISO) and is proven to be 99.99% effective against MRSA and E. coli (test reports available on request). With the combination of an anti-microbial additive X260 Medi-Vet® creates a permanent barrier against the growth of bacteria, biofilm, and moulds.

The anti-microbial additives based on Ionic silver used in X260 Medi-Vet are safe. We do not use nano-silver or any organic antimicrobial additives which have health and environmental concerns. The additives we use are non-leaching and non-sensitising.

X260 Medi-Vet® gives continuous protection. Ionic silver-based additives will not lose efficacy due to leaching or migration, they are evenly dispersed and embedded throughout X260 Medi-Vet® even scratches and abrasion do not affect the antimicrobial performance. Cleaning chemicals such as chlorine bleach, disinfectants, alcohol, and even harsh industrial products like MEK (methyl ethyl ketone) will not diminish the antimicrobial properties of X260 Medi-Vet®.

The anti-microbial additive will remain effective within the concrete matrix of the substrate treated.

PLEASE NOTE: THIS DOES NOT REPLACE REGULAR CLEANING AND HYGIENE PRACTICES.

Escherichia coli

Tested at 35°C

Sample		Number of live organisms (Colony Forming Units)		% reduction of Colony Forming Units, expressed as comparison with control	
		0 hours	24 Hours		
Control	Untreated polyethylene film	110000	12000000	N/A	
53050-A	X260 MediVet	110000	<10	>99.99991% Reduction	EXCELLENT
53050-B	X260 MediVet	110000	<10	>99.99991% Reduction	EXCELLENT
53050-C	X260 MediVet	110000	<10	>99.99991% Reduction	EXCELLENT

MRSA (Methicillin Resistant Staphylococcus aureus)

Tested at 35°C

Sample				% reduction of Colony Forming Units, expressed as comparison with control	
			24 Hours		
Control	Untreated polyethylene film		220000	N/A	
53050-A	X260 MediVet	140000	<10	>99.995% Reduction	EXCELLENT
53050-B	X260 MediVet	140000	<10	>99.995% Reduction	EXCELLENT
53050-C	X260 MediVet	140000	<10	>99.995% Reduction	EXCELLENT

Oxtek Solutions Pty Ltd H/O
5/ 17-19 Miles Street, Mulgrave VIC 3170
Phone: +61 39798 7534 Email: reception@oxtek.com.au
www.oxtek.com.au

Gilt Edge Industries H/O
110 Antigua Street, Addington, Christchurch 8240
Phone: 0800 445 833 Email: help@giltedge.co.nz
www.giltedge.co.nz/protect-crete

X263 MEDI-VET REPELLER ™

MOISTURE CONTROL & ANTIMICROBIAL SURFACE PROTECTION

TDS 263 – V9 JAN 2025

Description

X263 Medi-Vet Repeller™ a single pack one application spray on system that deeply penetrates new or existing concrete, provides curing, permanent waterproofing, and surface protection from bacteria. With PROVEN TESTED safe silver ion antimicrobial additive X263 Medi-Vet Repeller™ will protect concrete from E coli & MRSA. The application of X263 Medi-Vet Repeller™ at time of the concrete pour will cure concrete to provide the hardened properties equivalent to that of water pond curing, permanently waterproof concrete from any direction, making the concrete impermeable and increasing its longevity whilst providing surface protection from contamination.

Adopting the use of X263 Medi-Vet Repeller™ at time of the concrete pour as an effective curing regime, will significantly reduce the incidence of dry shrinkage cracking, providing a hardened, denser and dust proof concrete. X263 Medi-Vet Repeller conforms to the moisture suppressant requirements as per **NZAS1884-2013** and achieves the cure requirements of **NZS 3109:1997** & **NZS 3101:part 1 2006.**

X263 Medi-Vet Repeller™ provides enhanced antimicrobial surface protection and ease of cleaning against acids, oils, water-based stains, chemicals, body fluids, wine, grease, and others.

Typical Applications

Examples for areas of use are as follows: Internal or external exposed natural concrete, rooftop & basement Carparks, animal enclosures, restaurants, outdoor / indoor eating areas, garden centres, warehouses, factories, breweries, wineries.

Features and Benefits

Some features and benefits of X263 Medi-Vet Repeller™ include the following:

- Antimicrobial formulation offers protection from E. coli & MRSA.
- Colloidal silicate used to cure, densify, harden, and permanently waterproof concrete.
- Increases surface tensile & compressive strength.
- Reduces dry shrinkage cracking.
- Provides a hardened, abrasion resistant, dust-proof surface.
- Retards efflorescence.
- Stabilises pH.
- Resists surface staining.
- HACCP approved – Food compliant.
- Improved chemical resistance and protection.
- Eliminates mould and odours.
- Low VOC, environmentally friendly and user safe.
- Used on horizontal or vertical substrates.
- Doesn't form a membrane - After trade friendly.
- Compatible with line marking paints and other coating products.
- UV Resistant.
- Minimum site disruption and trafficable after 2 hours.
- Independent antimicrobial efficacy testing.
- Test reports available on request.

Oxtek Solutions Pty Ltd H/O
5/ 17-19 Miles Street, Mulgrave VIC 3170
Phone: +61 39798 7534 Email: reception@oxtek.com.au
www.oxtek.com.au

Gilt Edge Industries H/O
110 Antigua Street, Addington, Christchurch 8240
Phone: 0800 445 833 Email: help@giltedge.co.nz
www.giltedge.co.nz/protect-crete

X263 MEDI-VET REPELLER ™

MOISTURE CONTROL & ANTIMICROBIAL SURFACE PROTECTION

TDS 263 – V9 JAN 2025

Physical Properties

Appearance	Low viscosity clear liquid
pH	Ca. 11.4
Flash Point	Not applicable
Relative Density	Ca. 1.13 @ 20°C
Volatile Organic Compounds (VOC) Con	9g per Litre
Viscosity	Low
Odour	Almost none
Initial Boling Point / Boiling Range	>100°C @ 760 mmHg
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limits	Not applicable
Auto-ignition Temperature	Product not self-igniting
Solubility	Fully miscible in water

Recommended Substrate Conditions & Preparation

Product Coverage Rates:

Freshly Placed Concrete:	Minimum 5m² per litre.
Existing Concrete:	Minimum 5m² per litre.

Important Notes:

1. Wax, paint, curing compounds or a burnished surface restricting access to concrete's interior must be chemically or mechanically removed for X263 Medi-Vet Repeller™ to penetrate the substrate.
2. To test for adequate porosity, apply droplets of water on the concrete surface, if the droplets do not penetrate the concrete within 2 minutes, then X263 Medi-Vet Repeller™ will not function properly and may be ineffective.
3. Areas of high porosity have a faster penetration rate. These areas appear dry immediately after spraying and will require additional product.
4. Do not apply on a frozen substrate or on a falling substrate temperature of below 3°C. Call for advice if applying during colder periods. Do NOT apply if rain is forecast within 24 hours.
5. When applying line marking paint on 6. X263 Medi-Vet Repeller™ treated concrete always follow the paint manufacturers surface preparation requirements (see Overcoat Timelines).
6. X263 Medi-Vet Repeller™ may etch glass/tiles or dull brushed and shiny aluminium and can be difficult to remove from other surfaces once it dries. Cover and mask surrounding surfaces or rinse immediately if sprayed.
7. We recommend the wearing of eye protection, gloves, and a painter's face mask during application. Refer to MSDS available from www.oxtek.com.au.

Application Guidelines

Note:

In hot climates, mist-wet the surface with water and remove any puddles prior to application. Use best practice hot weather concrete placement techniques. The use of Aliphatic alcohol is recommended in hot and windy conditions and will not detrimentally affect the application and performance of X263 Medi-Vet Repeller™

On Already-Set Concrete:

X263 Medi-Vet Repeller™ is to be applied to a clean and absorbent substrate from any standing or pooling water on the surface. Please note: on occasions, the concrete may be of poor quality and be very porous, which may require additional product to ensure that there is enough product to complete the capillary chemical gel forming reaction.

At Time of Pour:

X263 Medi-Vet Repeller™ is ideally applied to the newly-poured concrete surface as soon as is practical following its surface finishing phase. Should site conditions require the surface to be walked on, for application, concrete should be allowed the time to adequately set, so as not to imprint or mark its surface during application.

Please Note: If application is more than 4 hours after initial set, the benefits of using this product as an effective curing regime will be reduced (subject to climatic conditions).

Recommended minimum coverage rate is 5m2 per litre.

Application:

Apply X263 Medi-Vet Repeller™ using low-pressure non-atomising spray apparatus such as a pump-tank or battery pack sprayer, complete with fan spray nozzle or by airless spray unit set at 800psi. Holding spray tip (eg .019” - .024”) 150mm from surface, apply X263 Medi-Vet Repeller™ at minimum rate of 5m² per litre with an overlapping spray pattern of 50%. Using a soft broom sweep and spread-out puddled product as it penetrates.

Note:

Always begin application at the lowest elevation. For example, walls and slopes should be applied side-to-side, from the bottom up.

Do not allow product to puddle dry on the surface. If product gels on the surface remove with a squeegee.

Excess Product Removal:

Should non-penetrative residues of the X263 Medi-Vet Repeller™ product fail to be removed from the substrate surface in-line with the application methodologies documented above, a slippery gel may form which will require to be removed to avoid a potential slip hazard.

A simple cleaning by pressure washing (domestic or garden nozzle spray) and / or scrubbing to assist with removal of larger build up areas of gelled product by brush should be undertaken, followed by squeegeeing or hosing off, the waste product from the concrete surface.

Cleaning of the concrete substrate surface to remove these non-penetrative residues by pressure washing, should commence no earlier than 24 hours post completion of the X263 Medi-Vet Repeller™ application.

Additional Note: Application to vertical substrates:

Please contact Oxtek Solutions to confirm suitability for use, and for guidance on surface preparation requirements and application methodology.

Caution: For recently placed and unused concrete only.

For existing, soiled, used and old concrete a two-part sytem approach should be adopted for best results. X260 Medi-Vet™ wil decontaminate and purge deep seated unwanted substance to the substrate surface which will require to be removed prior to applying the X310 Repeller Plus + ™ invisible penetrative sealer for additional antimicrobial surface protection. PleaserRefer to the relevant product TDS available from www.oxtek.com.au

Overcoat Timelines:

Line Marking paint or other coating products can be applied 14 days from the date of concrete placement and X263 Medi-Vet Repeller™ application.

If the X263 Medi-Vet Repeller™ is applied to a substrate that is older than 14 days, line marking paint or other coating products can be installed 24 hours post application.

Subsequent Coverings and Coatings:

A simple preparation of sanding or blue pad is recommended to remove any laitance, efflorescence or any contaminats off the concrete surface to prepare the substrate for any line marking paint or other coatings product. Always follow the line marking paint or coating product manufacturers recommendations and requirements.

Hot and Cold Temperatures:

In hot or windy conditions, the concrete surface temperature or wind may dry out the product prematurely before it has a chance to drop in thoroughly, in this case it is advisable to mist spray the surface with water and apply X263 Medi-Vet Repeller™ whilst the surface is damp but not puddled. This also helps with a relaxation of surface tension allowing a more efficient and faster penetration as well as premature evaporation or drying out. X263 Medi-Vet Repeller™ should not be applied if the ambient temperature is below 3^0C and falling. X263 Medi-Vet Repeller™ is not affected at all by temperature change after 24 hours, not even in freeze thaw conditions.

Additional Advice and Precautions:

1. Protect areas not intended for coverage. Do not walk product onto any adjacent surfaces as marking may be permanent.
2. Restrict access to areas being treated as surface may be slippery until all product has penetrated the substrate or been removed from surface.

Maintenance

Spillages:

All spillages should be removed as quickly as possible. This is good practice in terms of Health and Safety and the general upkeep of the treated surface. If spillages such as oil and grease are left longer than 24 hours on the surface some staining may occur.

Cleaning:

All areas should be cleaned on a regular and ongoing basis, by light scrubbing with warm water and detergent.

Repairs:

Localised repairs can easily be undertaken to damaged or heavily abraded areas using X310 Repeller Plus + ™. This can be applied with a low-pressure spray by maintenance personnel – dry in approximately 30 minutes. Please note that although X310 Repeller Plus + ™ is an invisible penetrative densifier and sealer, it is likely that some darkening may appear on the treated surface, however this will have no detrimental effect on the performance of the product.

Storage & Shelf Life

- Must be stored out of direct sunlight.
- Storage temperature range: Max 38°C to Min 3°C.
- Shelf life is 3 years if stored as above in original unopened containers.
- To avoid contamination, decanted product must not be returned to container.
- Recommended usage: within – 30 days of opening.

Warranty Request & Registration

Warranties are available on request subject to satisfying our Terms & Conditions and by agreeing to our product application criteria. An issued warranty is project specific and will require a consultation and a registered specification number. A request for warranty must be registered prior to commencement of the project.

We have technical expertise and experience to help and consult on your future projects or assist your existing projects maintain time and budget.

Australia, UK, & Asia Contact Oxtek Solutions Head Office: Call +61 3 9798 7534 or email reception@oxtek.com.au.

New Zealand Contact:
Gilt Edge Industries call 0800 445 833 CHC: 03 379 7067 AKL: 09 443 7067 or email help@giltedge.co.nz.

NB: Concrete Substrates of 15 years or older will not be covered under an Oxtek Solutions warranty.

Proven Anti-Microbial Performance Testing

The anti-microbial performance of X263 Medi-Vet Repeller™ is confirmed by independent laboratory testing to the international standards (JIS and ISO) and is proven to be 99.99% effective against MRSA and E. coli (test reports available on request). With the combination of an anti-microbial additive X263 Medi-Vet Repeller™ creates a permanent barrier against the growth of bacteria, biofilm, and moulds.

The anti-microbial additives based on Ionic silver used in X263 Medi-Vet Repeller™ are safe. We do not use nano-silver or any organic antimicrobial additives which have health and environmental concerns. The additives we use are non-leaching and non-sensitising.

X263 MEDI-VET REPELLER ™

MOISTURE CONTROL & ANTIMICROBIAL SURFACE PROTECTION

TDS 263 – V9 JAN 2025

X263 Medi-Vet Repeller™ gives continuous protection. Ionic silver-based additives will not lose efficacy due to leaching or migration, they are evenly dispersed and embedded throughout X263 Medi-Vet Repeller™ even scratches and abrasion do not affect the antimicrobial performance. Cleaning chemicals such as chlorine bleach, disinfectants, alcohol, and even harsh industrial products like MEK (methyl ethyl ketone) will not diminish the antimicrobial properties of X263 Medi-Vet Repeller™

Escherichia coli

Tested at 35°C

Sample		Number of live organisms (Colony Forming Units)		% reduction of Colony Forming Units, expressed as comparison with control	
		0 hours	24 Hours		
Control	Untreated polyethylene film	110000	12000000	N/A	
53050-A	X260 MediVet	110000	<10	>99.99991% Reduction	EXCELLENT
53050-B	X260 MediVet	110000	<10	>99.99991% Reduction	EXCELLENT
53050-C	X260 MediVet	110000	<10	>99.99991% Reduction	EXCELLENT

MRSA (Methicillin Resistant Staphylococcus aureus)

Tested at 35°C

Sample			24 Hours	% reduction of Colony Forming Units, expressed as comparison with control	
Control	Untreated polyethylene film		220000	N/A	
53050-A	X260 MediVet	140000	<10	>99.995% Reduction	EXCELLENT
53050-B	X260 MediVet	140000	<10	>99.995% Reduction	EXCELLENT
53050-C	X260 MediVet	140000	<10	>99.995% Reduction	EXCELLENT

Oxtek Solutions Pty Ltd H/O
5/ 17-19 Miles Street, Mulgrave VIC 3170
Phone: +61 39798 7534 Email: reception@oxtek.com.au
www.oxtek.com.au

Gilt Edge Industries H/O
110 Antigua Street, Addington, Christchurch 8240
Phone: 0800 445 833 Email: help@giltedge.co.nz
www.giltedge.co.nz/protect-crete

X280 DENSI-PROOF REO PROTECT™

CORROSION PROTECTION AND DURABILITY

TDS 280 – V8 JAN 2025

Description

X280 Densi-Proof Reo Protect™ a single pack one application spray on system that deeply penetrates new or existing concrete, provides curing, permanent waterproofing, and protection.

X280 Densi-Proof Reo Protect™ has been specifically formulated to prevents conditions that create and/or promote corrosion activity, significantly retarding rust producing reactions of the embedded steel reinforcement.

Adopting the use of X280 Densi-Proof Reo Protect™ at time of the concrete pour as an effective curing regime (equivalent to that of water ponding), will significantly reduce the incidence of dry shrinkage cracking, providing a hardened, denser and dust proof concrete, compatible with subsequent flooring or coating applications.

Typical Applications

Examples for areas of use are as follows: bridges, wharfs, marine walls, culverts, tunnels, water infrastructure, industrial, mining, and concrete structures exposed to a marine environment.

Features and Benefits

Some features and benefits of X280 Densi-Proof Reo Protect™ include the following:

- Prevent or retard any future corrosion.
- Retards existing corrosion.
- Colloidal silicate to cure, densify and harden.
- Permanently waterproofs concrete from any direction.
- Increases surface tensile & compressive strength.
- Reduces dry shrinkage cracking.
- Provides a hardened, abrasion resistant, dust-proof surface.
- Retards efflorescence.
- Stabilise concrete pH.
- Improved chemical resistance and protection.
- Used on horizontal or vertical substrates.
- Resists freeze-thaw damage.
- Moisture barrier for impervious coatings and coverings.
- Low VOC, environmentally friendly and user safe. HACCP approved.
- Increased acid and chemical resistance.
- Lowers chemical reaction potential.
- Will purge contamination if present in existing concrete.
- Resists vapour transmission.
- Compatible with most coatings and line marking paints.
- UV Resistant.
- Minimum site disruption and trafficable after 2 hours.
- Test reports available on request.
-

Oxtek Solutions Pty Ltd H/O
5/ 17-19 Miles Street, Mulgrave VIC 3170
Phone: +61 39798 7534 Email: reception@oxtek.com.au
www.oxtek.com.au

Gilt Edge Industries H/O
110 Antigua Street, Addington, Christchurch 8240
Phone: 0800 445 833 Email: help@giltedge.co.nz
www.giltedge.co.nz/protect-crete

X280 DENSI-PROOF REO PROTECT™

CORROSION PROTECTION AND DURABILITY

TDS 280 – V8 JAN 2025

Physical Properties

Appearance	Low viscosity clear liquid
pH	Ca. 11.4
Flash Point	Not applicable
Relative Density	Ca. 1.10 @ 20°C
Volatile Organic Compounds (VOC) Con	<1g per Litre
Viscosity	Low
Odour	Almost none
Initial Boling Point / Boiling Range	>100°C @ 760 mm Hg
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limits	Not applicable
Auto-ignition Temperature	Product not self-igniting
Solubility	Fully miscible in water

Recommended Substrate Conditions & Preparation

Product Coverage Rates:

Freshly Placed Concrete:	Minimum 5m²per litre.
Existing Concrete:	Minimum 5m² per litre.

Important Notes:

1. Wax, paint, curing compounds or a burnished surface restricting access to concrete's interior must be chemically or mechanically removed for X280 Densi-Proof Reo Protect™ to penetrate the substrate.
2. To test for adequate porosity, apply droplets of water on the concrete surface, if the droplets do not penetrate the concrete within 2 minutes, then X280 Densi-Proof Reo Protect™ will not function as intended and may be ineffective.
3. Areas of high porosity have a faster penetration rate. These areas appear dry immediately after spraying and will require additional product.
4. Do not apply on a frozen substrate or on a falling substrate temperature of below 3°C. Call for advice if applying during colder periods.
5. Do NOT apply if rain is forecast within 3 hours.
6. Before applying any paint, adhesives, or any other coatings, wait a minimum of 24 hours after application with X280 Densi-Proof Reo Protect™ (see Overcoat Timelines). Pressure wash or sand and clean, then check visually to be satisfied purging has completed (if required a second or subsequent coats may be necessary). For further help and advice call our office.
7. X280 Densi-Proof Reo Protect™ may etch glass/tiles or dull brushed and shiny aluminium and can be difficult to remove from other surfaces once it dries. Cover and mask surrounding surfaces or rinse immediately if sprayed.

8. Concrete being treated must be fit for purpose for the intended function of X280 Densi-Proof Reo Protect™. Structural cracks, active cracks, and faulty control and cold joints will not be repaired with a X280 Densi-Proof Reo Protect™ application.
9. We recommend the wearing of eye protection, gloves, and a painter's face mask during application. Refer to MSDS available from www.oxtek.com.au.

Application Guidelines

Note:

In hot climates, mist-wet the surface with water and remove any puddles prior to application. Use best practice hot weather concrete placement techniques. The use of Aliphatic alcohol is recommended in hot and windy conditions and will not detrimentally affect the application and performance of X280 Densi-Proof Reo Protect™.

Already-Set Concrete:

X280 Densi-Proof Reo Protect™ is to be applied to a clean and absorbent substrate from any standing or pooling water on the surface. Please note: on occasions, the concrete may be of poor quality and be very porous, which may require additional product to ensure that there is enough product to complete the capillary chemical gel forming reaction.

At Time of Pour:

X280 Densi-Proof Reo Protect™ is ideally applied to the newly-poured concrete surface as soon as is practical following its surface finishing phase.

Should site conditions require the surface to be walked on, for application, concrete should be allowed the time to adequately set, so as not to imprint or mark its surface during application.

Please Note: If application is more than 4 hours after initial set, the benefits of using this product as an effective curing regime will be reduced (subject to climatic conditions).

Application:

Apply X280 Densi-Proof Reo Protect™ using low-pressure non-atomising spray apparatus such as a pump-tank or battery pack sprayer, complete with fan spray nozzle or by airless spray unit set at 800psi. Holding spray tip (eg .019" - .024") 150mm from surface, apply X280 Densi-Proof Reo Protect™ at minimum rate of 5m² per litre with an overlapping spray pattern of 50%. Using a soft broom sweep and spread-out puddled product as it penetrates.

Note:

Always begin application at the lowest elevation. For example, walls and slopes should be applied side-to-side, from the bottom up.

Do not allow product to puddle dry on the surface. If product gels on the surface remove with a squeegee.

Excess Product Removal:

Should non-penetrative residues of the X280 Densi-Proof Reo Protect™ product fail to be removed from the substrate surface in-line with the application methodologies documented above, a slippery gel may form which will require to be removed to avoid a potential slip hazard.

A simple cleaning by pressure washing (domestic or garden nozzle spray) and / or scrubbing to assist with removal of larger build up areas of gelled product by brush should be undertaken, followed by squeegeeing or hosing off, the waste product from the concrete surface.

Cleaning of the concrete substrate surface to remove these non-penetrative residues by pressure washing, should commence no earlier than 3 hours post completion of the X280 Densi-Proof Reo Protect™ application.

Overcoat Timelines:

Line marking paints and other coatings can be installed 14 days from the date of concrete placement X280 Densi-Proof Reo Protect™ application.

If the X280 Densi-Proof Reo Protect™ is applied to a substrate that is older than 14 days, line marking paints and coatings can be installed 24 hours post application.

Subsequent Coverings and Coatings:

A simple preparation of sanding or blue pad is recommended to remove any laitance, efflorescence or any purged contamination off the concrete surface to prepare the substrate for any coatings, sealers or flooring systems. Always follow the coating, adhesive or covering manufacturers recommendations and requirements.

Hot and Cold Temperatures:

In hot or windy conditions, the concrete surface temperature or wind may dry out the product prematurely before it has a chance to drop in thoroughly, in this case it is advisable to mist spray the surface with water and apply X280 Densi-Proof Reo Protect™ whilst the surface is damp but not puddled. This also helps with a relaxation of surface tension allowing a more efficient and faster penetration as well as premature evaporation or drying out. X280 Densi-Proof Reo Protect™ should not be applied if the ambient temperature is below 3^0C and falling. X280 Densi-Proof Reo Protect™ is not affected at all by temperature change after 24 hours, not even in freeze thaw conditions.

Additional Advice and Precautions:

1. If the existing concrete's moisture content is higher than 75%, all of the above procedures should be followed, however, there is normally a problem somewhere, like broken pipes, hydrostatic pressure etc for old concrete to remain this wet. This cause should be investigated. Contact Oxtek for further information as an additional coat or change of application procedure may be required.

2. Protect areas not intended for coverage. Do not walk product onto any adjacent surfaces as marking may be permanent.
3. Restrict access to areas being treated as surface may be slippery until all product has penetrated the substrate or been removed from surface.

Storage & Shelf Life

- Must be stored out of direct sunlight.
- Storage temperature range: Max 38°C to Min 3°C.
- Shelf life is 3 years if stored as above in original unopened containers.
- To avoid contamination, decanted product must not be returned to container.
- Recommended usage: within – 30 days of opening.

Available in 5, 15, 200 and 1,000 litre containers.

Warranty Request & Registration

Warranties are available on request subject to satisfying our Terms & Conditions and by agreeing to our product application criteria. An issued warranty is project specific and will require a consultation and a registered specification number. A request for warranty must be registered prior to commencement of the project.

We have technical expertise and experience to help and consult on your future projects or assist your existing projects maintain time and budget.

Australia, UK, & Asia Contact Oxtek Solutions Head Office: Call +61 3 9798 7534 or email reception@oxtek.com.au.

New Zealand Contact:
Gilt Edge Industries call 0800 445 833 CHC: 03 379 7067 AKL: 09 443 7067 or email help@giltedge.co.nz.

NB: Concrete Substrates of 15 years or older will not be covered under an Oxtek Solutions warranty.

X300 REPELLER™

INVISIBLE PENETRATING SEALER

TDS 300 – V7 JAN 2025

Description

X300 Repeller™ is an invisible, surface protection treatment for concrete, masonry, and some natural stone substrates. A water-based formulation spray applied to new and existing substrates providing stain resistance from oils and other contaminants, compatible with line marking paints and other coating products.

A low VOC treatment which penetrates concrete and chemically bonds to the silica, providing temporary hydrophobic repellence. Dries to a clear invisible non- film forming, breathable finish.

Typical Applications

Examples for areas of use are as follows: Internal or external exposed concrete and masonry surfaces, including polished and decorative concretes, and some natural stones such as limestone, sandstone, and travertine.

Features and Benefits

Some features and benefits of X300 Repeller™ include the following:

- Reduces oil staining.
- Reduces tyre noise and marks.
- Enhanced traction quality.
- Improves fungus / mildew resistance.
- Retards / eliminates efflorescence.
- Suitable for any concrete or masonry surfaces.
- Can be applied to some natural stones.
- Preserves original appearance.
- Matt no-sheen surface finish.
- Improved surface protection and stain resistance.
- Low VOC, 1g/litre.
- HACCP approved – Food compliant.
- Used on horizontal or vertical substrates.
- Temporary hydrophobic beading effect.
- Resists freeze-thaw damage.
- Barrier against bodily fluids.
- Highly resistant to alkali attack.
- UV Resistant and will not darken or yellow.
- Minimum site disruption and trafficable after 2 hours.
- Clear invisible finish.
- Long lasting & easily maintained / repairable.
- Non-flammable.
- Odourless.
- Environmentally friendly.
- Easy and safe to apply.
- Doesn't form a membrane - After trade friendly.
- Compatible with line marking paints and other coating products.
- Test reports available on request.

Oxtek Solutions Pty Ltd H/O
5/ 17-19 Miles Street, Mulgrave VIC 3170
Phone: +61 39798 7534 Email: reception@oxtek.com.au
www.oxtek.com.au

Gilt Edge Industries H/O
110 Antigua Street, Addington, Christchurch 8240
Phone: 0800 445 833 Email: help@giltedge.co.nz
www.giltedge.co.nz/protect-crete

X300 REPELLER™

INVISIBLE PENETRATING SEALER

TDS 300 – V7 JAN 2025

Physical Properties

Appearance	Low viscosity clear liquid
pH	Ca. 11.4
Flash Point	Not applicable
Relative Density	Ca. 1.03 @ 20°C
Volatile Organic Compounds (VOC) Con	1g per Litre
Viscosity	Low
Odour	Almost odourless
Initial Boling Point / Boiling Range	>100°C @ 760 mm Hg
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limits	Not applicable
Auto-ignition Temperature	Product not self-igniting
Solubility	Fully miscible in water

Recommended Substrate Conditions & Preparation

Product Coverage Rates:

Concrete & Masonry: $5m^2 – 8m^2$ per litre.

Natural Stone: $5m^2$ per litre.

Important Notes:

1. Wax, paint, curing compounds restricting access to substrates interior must be chemically or mechanically removed for X300 Repeller™ to penetrate the substrate.
2. Areas of high porosity have a faster penetration rate. These areas that appear to penetrate immediately after spraying will require additional product. Re-application requires to be wet on wet, as when the product dries on the substrate surface the application will repel itself.
3. Do not apply on a frozen substrate or on a falling substrate temperature of below 3°C. Call for advice if applying during colder periods.
4. Do not apply on a substrate surface of 34°C or above. On hot days, the application of X300 Repeller™ should take place in early morning or in the cool of the evening, out of direct sunlight.
5. Do NOT apply if rain is forecast within 24 hours.
6. X300 Repeller™ may etch glass/tiles or dull brushed and shiny aluminium and can be difficult to remove from other surfaces once it dries. Cover and mask surrounding surfaces or rinse immediately if sprayed.
7. Incidental skin contact should not be hazardous, but ingestion or eye contact should be avoided. It is recommended to wear gloves, eye protection and a painter's face mask during application.
   Refer to MSDS available from www.oxtek.com.au.

X300 REPELLER™

INVISIBLE PENETRATING SEALER

TDS 300 – V7 JAN 2025

Application Guidelines

Note:

In hot climates, mist-wet the surface with water and remove any puddles prior to application.

Existing Substrates:

X300 Repeller™ is to be applied to a clean absorbent surface free from any standing or pooling water on the substrate surface. It is highly recommended prior to commencing with a liberal application that a test is undertaken on a small area to confirm suitability.

Application:

Apply X300 Repeller™ using low-pressure non-atomising spray apparatus such as a pump-tank or battery pack sprayer, complete with fan spray nozzle. Holding spray tip (eg .019" - .024") 150mm from surface, apply X300 Repeller™ at minimum rate of 5m²per litre with an overlapping spray pattern of 50%. Begin application at the lowest elevation. For example, walls and slopes should be applied side-to-side, from the bottom up.

Using a soft broom sweep and spread-out puddled product as it penetrates. Do not over apply X300 Repeller™ and under no circumstance allow the applied product to puddle dry on the surface.

Do not apply a second coat if the first coat has penetrated the substrate and appears surface dry, as it will bead and will subsequently require to be removed.

Note: Always begin application at the lowest elevation. For example, walls and slopes should be applied side-to-side, from the bottom up.

Precaution:

White precipitate may form on the substrate surface if X300 Repeller™ is over applied or allowed to puddle dry. The surface should be washed and may need extensive scrubbing if this occurs, however it is extremely difficult to remove.

Protect all adjacent areas not intended for coverage as once X300 Repeller™ is applied it is very difficult to remove from the surface when dry and may cause damage.

Cleaning of the concrete substrate surface to remove these non-penetrative residues by pressure washing, should commence no earlier than 24 hours post completion of the X300 Repeller™ application.

Oxtek Solutions Pty Ltd H/O
5/ 17-19 Miles Street, Mulgrave VIC 3170
Phone: +61 39798 7534 Email: reception@oxtek.com.au
www.oxtek.com.au

Gilt Edge Industries H/O
110 Antigua Street, Addington, Christchurch 8240
Phone: 0800 445 833 Email: help@giltedge.co.nz
www.giltedge.co.nz/protect-crete

Note: Application to vertical substrates:

Please contact Oxtek Solutions to confirm suitability for use, and for guidance on surface preparation requirements and application methodology.

Additional Note:

X300 Repeller™ can be used in conjunction with either X200 Densi-Proof™ or X220 Moisture Fix™ so to provide an effective moisture barrier system for polished and decorative concrete finishes.

Please refer to the Refer to the relevant product TDS, available from www.oxtek.com.au.

Additional Advice and Precautions:

1. Protect areas not intended for coverage. Do not walk product onto any adjacent surfaces as marking may be permanent.
2. Restrict access to areas being treated as surface may be slippery until all product has penetrated the substrate or been removed from surface.

Overcoat Timeline:

If X300 Repeller™ is applied to a substrate that is older than 14 days, line marking paints or subsequent coating products can be installed 24 hours post application.

Note: Always follow line marking paint and or coating manufacturers surface preparation requirements for the applicable subtrate that it is to be applied.

Maintenance Recommendations

Spillages:

All spillages should be removed as quickly as possible. This is good practice in terms of Health and Safety and the general upkeep of the treated surface. If spillages such as oil and grease are left longer than 24 hours on the surface some staining may occur.

Cleaning:

All areas should be cleaned on a regular and ongoing basis, by light scrubbing with warm water and detergent.

Repairs:

Localised repairs can easily be undertaken to damaged or heavily abraded areas. X300 Repeller™ can be re-applied with a low-pressure spray by maintenance personnel – dry in approximately 30 minutes. Please note that although X300 Repeller™ is an invisible penetrative densifier and sealer, it is likely that some darkening may appear on the treated surface, however this will have no detrimental effect on the performance of the product.

Storage & Shelf Life

- Must be stored out of direct sunlight.
- Storage temperature range: Max 38°C to Min 3°C.
- Shelf life is 3 years if stored as above in original unopened containers.
- To avoid contamination, decanted product must not be returned to container.
- Recommended usage: within – 30 days of opening.

Available in 5, 15, 200 and 1,000 litre containers.

Contact

We have technical expertise and experience to help and consult on your future projects or assist your existing projects maintain time and budget.

Australia, UK, & Asia Contact Oxtek Solutions Head Office: Call +61 3 9798 7534 or email reception@oxtek.com.au.

New Zealand Contact:
Gilt Edge Industries call 0800 445 833 CHC: 03 379 7067 AKL: 09 443 7067 or email help@giltedge.co.nz.

X310 REPELLER PLUS +™

INVISIBLE ANTIMICROBIAL PENETRATING SEALER

TDS 310 – V7 JAN 2025

Description

X310 Repeller Plus + ™ is an invisible antimicrobial, surface protection treatment for concrete, masonry, and some natural stone substrates. With PROVEN TESTED safe silver ion antimicrobial additive, X310 Repeller Plus + ™ will protect the substrate from E coli & MRSA. A water-based formulation spray applied to new and existing substrates providing stain resistance from oils and other contaminants, compatible with line marking paints.

A breathable, low VOC treatment which penetrates concrete and chemically bonds to the silica, providing temporary hydrophobic repellence. With proven tested antimicrobial additive.

Typical Applications

Examples for areas of use are as follows: Internal or external exposed concrete and masonry surfaces, including polished and decorative concretes, and some natural stones such as limestone, sandstone, and travertine.

Features and Benefits

Some features and benefits of X310 Repeller Plus + ™ include the following:

- Antimicrobial formulation offers protection from E. coli & MRSA.
- Reduces oil staining.
- Reduces tyre noise and marks.
- Enhanced traction quality.
- Improves fungus / mildew resistance.
- Retards / eliminates efflorescence.
- Suitable for any concrete or masonry surfaces.
- Can be applied to some natural stones.
- Preserves original appearance.
- Matt no-sheen surface finish.
- Improved surface protection and stain resistance.
- Barrier against bodily fluids.
- Low VOC, 14g/litre.
- HACCP approved – Food compliant.
- Resists freeze-thaw damage.
- Highly resistant to alkali attack.
- UV Resistant and will not darken or yellow.
- Minimum site disruption and trafficable after 2 hours.
- Clear invisible finish.
- Long lasting & easily maintained / repairable.
- Non-flammable.
- Odourless.
- Environmentally friendly.
- Easy and safe to apply.
- Doesn’t form a membrane - After trade friendly.
- Compatible with line marking paints and other coating products.
- Used on horizontal or vertical substrates.
- Temporary hydrophobic beading effect.
- Test reports available on request.

Oxtek Solutions Pty Ltd H/O
5/ 17-19 Miles Street, Mulgrave VIC 3170
Phone: +61 39798 7534 Email: reception@oxtek.com.au
www.oxtek.com.au

Gilt Edge Industries H/O
110 Antigua Street, Addington, Christchurch 8240
Phone: 0800 445 833 Email: help@giltedge.co.nz
www.giltedge.co.nz/protect-crete

X310 REPELLER PLUS +™

INVISIBLE ANTIMICROBIAL PENETRATING SEALER

TDS 310 – V7 JAN 2025

Physical Properties

Appearance	Low viscosity clear liquid
pH	Ca. 11.4
Flash Point	Not applicable
Relative Density	Ca. 1.03 @ 20°C
Volatile Organic Compounds (VOC) Con	14g per Litre
Viscosity	Low
Odour	Almost odourless
Initial Boling Point / Boiling Range	>100°C @ 760 mm Hg
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limits	Not applicable
Auto-ignition Temperature	Product not self-igniting
Solubility	Fully miscible in water

Recommended Substrate Conditions & Preparation

Product Coverage Rates: Concrete & Masonry: 5m² – 8m2 per litre.

Natural Stone: 5m² per litre.

Important Notes:

1. Wax, paint, curing compounds restricting access to substrates interior must be chemically or mechanically removed for X310 Repeller Plus + ™ to penetrate the substrate.
2. Areas of high porosity have a faster penetration rate. These areas that appear to penetrate immediately after spraying will require additional product. Re-application requires to be wet on wet, as when the product dries on the substrate surface the application will repel itself.
3. Do not apply on a frozen substrate or on a falling substrate temperature of below 3°C. Call for advice if applying during colder periods.
4. Do not apply on a substrate surface of 34°C or above. On hot days, the application of X310 Repeller Plus + ™ should take place in early morning or in the cool of the evening, out of direct sunlight.
5. Do NOT apply if rain is forecast within 24 hours.
6. X310 Repeller Plus + ™ may etch glass/tiles or dull brushed and shiny aluminium and can be difficult to remove from other surfaces once it dries. Cover and mask surrounding surfaces or rinse immediately if sprayed.
7. Incidental skin contact should not be hazardous, but ingestion or eye contact should be avoided. It is recommended to wear eye protection, gloves, and a painter's face mask during application.

Refer to MSDS available from www.oxtek.com.au.

Application Guidelines

Note: In hot climates, mist-wet the surface with water and remove any puddles prior to application.

Existing Substrates:

X310 Repeller Plus + ™ is to be applied to a clean absorbent surface free from any standing or pooling water on the substrate surface. It is highly recommended prior to commencing with a liberal application that a test is undertaken on a small area to confirm suitability.

Application:

Apply X310 Repeller Plus + ™ using low-pressure non-atomising spray apparatus such as a pump-tank or battery pack sprayer, complete with fan spray nozzle. Holding spray tip (eg .019" - .024") 150mm from surface, apply X310 Repeller Plus + ™ at minimum rate of 5m² per litre with an overlapping spray pattern of 50%. Begin application at the lowest elevation. For example, walls and slopes should be applied side-to-side, from the bottom up.

Using a soft broom sweep and spread-out puddled product as it penetrates. Do not over apply X310 Repeller Plus + ™ and under no circumstance allow the applied product to puddle dry on the surface.

Do not apply a second coat if the first coat has penetrated the concrete and appears surface dry, as it will bead and will subsequently require to be removed.

Do not allow product to puddle dry on the surface. If product gels on the surface remove with a squeegee.

Note:

Always begin application at the lowest elevation. For example, walls and slopes should be applied side-to-side, from the bottom up.

Application to vertical substrates:

Please contact Oxtek Solutions to confirm suitability for use, and for guidance on surface preparation requirements and application methodology.

Precaution:

White precipitate may form on the substrate surface if X310 Repeller Plus + ™ is over applied. The surface should be washed and may need extensive scrubbing if this occurs, however it is extremely difficult to remove.

Protect all adjacent areas not intended for coverage as once X310 Repeller Plus + ™ is applied it is very difficult to remove from the surface when dry and may cause damage.

Cleaning of the concrete substrate surface should commence no earlier than 24 post completion of the X310 Repeller Plus + ™ application.

Additional Note:

X310 Repeller Plus + ™ can be used in conjunction with either X200 Densi-Proof™, X220 Moisture Fix® or X260 Medi Vet™ so to provide an effective moisture barrier system for polished and decorative concrete finishes.

Please refer to the Refer to the relevant product TDS, available from www.oxtek.com.au.

Additional Advice and Precautions:

1. Protect areas not intended for coverage. Do not walk product onto any adjacent surfaces as marking may be permanent.
2. Restrict access to areas being treated as surface may be slippery until all product has penetrated the substrate or been removed from surface.

Overcoat Timelines:

If the X310 Repeller Plus + ™ is applied to a substrate that is older than 14 days, Line marking paints or subsequent coating products can be installed 24 hours post application.

Note: Always follow line marking paint and or coating manufacturers surface preparation requirements for the applicable substrate that is it to be applied.

Maintenance Recommendations

Spillages:

All spillages should be removed as quickly as possible. This is good practice in terms of Health and Safety and the general upkeep of the treated surface. If spillages such as oil and grease are left longer than 24 hours on the surface some staining may occur.

Cleaning:

All areas should be cleaned on a regular and ongoing basis, by light scrubbing with warm water and detergent.

Repairs:

Localised repairs can easily be undertaken to damaged or heavily abraded areas. X310 Repeller Plus + ™ can be re-applied with a low-pressure spray by maintenance personnel – dry in approximately 30 minutes. Please note that although X310 Repeller Plus + ™is an invisible penetrative densifier and sealer, it is likely that some darkening may appear on the treated surface, however this will have no detrimental effect on the performance of the product.

Storage & Shelf Life

- Must be stored out of direct sunlight.
- Storage temperature range: Max 38°C to Min 3°C.
- Shelf life is 3 years if stored as above in original unopened containers.
- To avoid contamination, decanted product must not be returned to container.
- Recommended usage: within – 30 days of opening.

Available in 5, 15, 200 and 1,000 litre containers.

Proven Anti-Microbial Performance Testing

The anti-microbial additive BIOMASTER, used within X310 Repeller Plus + ™ is based on Ionic silver which is safe. It does not use nano-silver or any organic antimicrobial additives which have health and environmental concerns. The additive used is non-leaching and non-sensitising.

BIOMASTER gives continuous protection as ionic silver-based additives will not lose efficacy due to leaching or migration. They are evenly dispersed and embedded throughout X310 Repeller Plus + ™ and even scratches and abrasion do not affect the antimicrobial performance. Cleaning chemicals such as chlorine bleach, disinfectants, alcohol, and even harsh industrial products like MEK (methyl ethyl ketone) will not diminish the antimicrobial properties of X310 Repeller Plus + ™.

BIOMASTER will remain effective on the surface and within the upper concrete matrix of the substrate treated.

PLEASE NOTE: THIS DOES NOT REPLACE REGULAR CLEANING AND HYGEINE PRACTICES.

Biomaster
Antimicrobial Technology

Contact

We have technical expertise and experience to help and consult on your future projects or assist your existing projects maintain time and budget.

Australia, UK, & Asia Contact Oxtek Solutions Head Office: Call +61 3 9798 7534 or email reception@oxtek.com.au.

New Zealand Contact:
Gilt Edge Industries call 0800 445 833 CHC: 03 379 7067 AKL: 09 443 7067 or email help@giltedge.co.nz.

X550 CARPARK WAREHOUSE™

INVISIBLE PENETRATING SEALER

TDS 550 – V9 JAN 2025

Description

X550 Carpark Warehouse™ is a proprietary silicate siliconate water-based formulation spray applied to new and existing concrete providing a hardened, abrasion resistant and dust-proof surface, stain resistant from oils and other contaminants, and compatible with line marking paints and acrylic or solvent based coating products.

A breathable, low VOC treatment for concrete, X550 Carpark Warehouse™ penetrates and chemically bonds to the silica, providing enhanced water repellence, oil, and stain resistance.

Adopting the use of X550 Carpark Warehouse™ at time of the concrete pour as an effective curing regime, will significantly reduce the incidence of dry shrinkage cracking, and provide a hardened, denser and dust proof concrete. X550 Carpark Warehouse achieves the cure requirements of NZS 3109:1997 & NZS 3101:part 1 2006.

Typical Applications

Examples for areas of use are as follows: internal or external exposed concrete surfaces. Multi-storey and ground level carparks, driveways, garages, warehouses, tilt panels, alfresco and communal areas.

Features and Benefits

Some features and benefits of X550 Carpark Warehouse™ include the following:

- Reduces oil staining.
- Enhanced traction quality.
- Provides a hardened, abrasion resistant, dust-proof surface.
- Densifies.
- Reduces tyre noise and marks.
- Effective curing regime.
- Reduces dry shrinkage cracking.
- Improves fungus / mildew resistance.
- Retards / eliminates efflorescence.
- Suitable for any concrete.
- Preserves original appearance.
- Matt no-sheen surface finish.
- Improved surface protection and stain resistance.
- Low VOC, HACCP approved.
- Used on horizontal or vertical substrates.
- Temporary hydrophobic beading effect.
- Doesn't form a membrane - After trade friendly.
- Compatible with line marking paints and other coating products.
- UV Resistant and will not darken or yellow.
- Minimum site disruption and trafficable after 2 hours.
- Clear invisible finish.
- Long lasting & easily maintained / repairable.
- Non-flammable.
- Odourless.
- Environmentally friendly.
- Easy and safe to apply.
- Resists freeze -thaw damage.
- Test reports available on request.

Oxtek Solutions Pty Ltd H/O
5/ 17-19 Miles Street, Mulgrave VIC 3170
Phone: +61 39798 7534 Email: reception@oxtek.com.au
www.oxtek.com.au

Gilt Edge Industries H/O
110 Antigua Street, Addington, Christchurch 8240
Phone: 0800 445 833 Email: help@giltedge.co.nz
www.giltedge.co.nz/protect-crete

X550 CARPARK WAREHOUSE™

INVISIBLE PENETRATING SEALER

TDS 550 – V9 JAN 2025

Physical Properties

Appearance	Low viscosity translucent green liquid
pH	Ca. 11.4
Flash Point	Not applicable
Relative Density	Ca. 1.13 @ 20°C
Volatile Organic Compounds (VOC) Con	<1g per Litre
Viscosity	Low
Odour	Almost odourless
Initial Boling Point / Boiling Range	>100°C @ 760 mm Hg
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limits	Not applicable
Auto-ignition Temperature	Product not self-igniting
Solubility	Fully miscible in water

Recommended Substrate Conditions & Preparation

Product Coverage Rates: Freshly Placed Concrete: Minimum 5m² per litre.

Existing Concrete: Minimum 5m² per litre.

Important Notes:

1. Wax, paint, curing compounds or a burnished surface restricting access to concrete's interior must be chemically or mechanically removed for X550 Carpark Warehouse™ to penetrate the substrate.
2. To test for adequate porosity, apply droplets of water on the concrete surface, if the droplets do not penetrate the concrete within 2 minutes, then X550 Carpark Warehouse™ will not function as intended and may be ineffective.
3. Areas of high porosity have a faster penetration rate. These areas that appear to penetrate immediately after spraying will require additional product. Re-application requires to be wet on wet, as when the product dries on the substrate surface the application will repel itself.
4. Do not apply on a frozen substrate or on a falling substrate temperature of below 3°C. Call for advice if applying during colder periods.
5. Do not apply on a substrate surface of 34°C or above. On hot days, the application of X550 Carpark Warehouse™ should take place in early morning or in the cool of the evening, out of direct sunlight.
   Do NOT apply if rain is forecast within 24 hours.

6. X550 Carpark Warehouse™ may etch glass/tiles or dull brushed and shiny aluminium and can be difficult to remove from other surfaces once it dries. Cover and mask surrounding surfaces or rinse immediately if sprayed.

7. Incidental skin contact should not be hazardous, but ingestion or eye contact should be avoided. It is recommended to wear gloves, eye protection and a painter's mask during application.
8. Refer to MSDS available from www.oxtek.com.au.

Application Guidelines

Note: In hot climates, mist-wet the surface with water and remove any puddles prior to application. Use best practice hot weather concrete placement techniques. The use of Aliphatic alcohol is recommended in hot and windy conditions and will not detrimentally affect the application and performance of X550 Carpark Warehouse™

On Already-Set Concrete:

X550 Carpark Warehouse™ is to be applied to a clean absorbent surface free from any standing or pooling water on the substrate surface. It is highly recommended prior to commencing with a liberal application that a test undertaken on a small area to confirm suitability.

At Time of Pour:

X550 Carpark Warehouse™ is ideally applied to the newly-poured concrete surface as soon as is practical following its surface finishing phase. Concrete should be allowed time to adequately set, so not to imprint or mark its surface during application, or if site conditions require the surface to be walked on.

Please Note: If application is more than 4 hours after initial set, the benefits of using this product as an effective curing regime will be reduced (subject to climatic conditions).

Application:

Apply X550 Carpark Warehouse™ using low-pressure non-atomising spray apparatus such as a pump-tank or battery pack sprayer, complete with fan spray nozzle. Holding spray tip (eg .019" - .024") 150mm from surface, apply X550 Carpark Warehouse™ at minimum rate of 5m²per litre with an overlapping spray pattern of 50%. Begin application at the lowest elevation. For example, walls and slopes should be applied side-to-side, from the bottom up.

Using a soft broom sweep and spread-out puddled product as it penetrates. Do not over apply X550 Carpark Warehouse™ and under no circumstance allow the applied product to puddle dry on the surface.

Do not apply a second coat if the first coat has penetrated the concrete and appears surface dry, as it will bead and will subsequently require to be removed.

Note: Always begin application at the lowest elevation. For example, walls and slopes should be applied side-to-side, from the bottom up.

Precaution:

White precipitate may form on the substrate surface if X550 Carpark Warehouse™ is over applied or allowed to puddle dry. The surface should be washed and may need extensive scrubbing if this occurs, however it is extremely difficult to remove.

Protect all adjacent areas not intended for coverage as once X550 Carpark Warehouse™ is applied it is very difficult to remove from the surface when dry.

Cleaning of the concrete substrate surface should commence no earlier than 24 hours post completion of the X550 Carpark Warehouse™ application.

Application to exposed raised aggregate substrates:

Please contact Oxtek Solutions to confirm suitability for use, and for guidance on surface preparation requirements and application methodology. It is not recommended that the application of X550 Carpark Warehouse to exposed raised aggregate substrates is undertaken by personnel that have no or limited experience in sealing of concrete.

Application to vertical substrates:

Please contact Oxtek Solutions to confirm suitability for use, and for guidance on surface preparation requirements and application methodology.

Additional Advice and Precautions:

1. Protect areas not intended for coverage. Do not walk product onto any adjacent surfaces as marking may be permanent.
2. Restrict access to areas being treated as surface may be slippery until all product has penetrated the substrate or been removed from surface.

Overcoat Timelines:

Line marking paints and other coatings can be installed 14 days from the date of concrete placement and X550 Carpark Warehouse™ application.

If the X550 Carpark Warehouse™ is applied to a substrate that is older than 14 days, Line marking paints and other coatings can be installed 24 hours post application.

Note: Always follow line marking paint and or coating manufacturers surface preparation requirements.

Maintenance Recommendations

Spillages:

All spillages should be removed as quickly as possible. This is good practice in terms of Health and Safety and the general upkeep of the treated surface. If spillages such as oil and grease are left longer than 24 hours on the surface some staining may occur.

Cleaning:

All areas should be cleaned on a regular and ongoing basis, by light scrubbing with warm water and detergent.

Repairs:

Localised repairs can easily be undertaken to damaged or heavily abraded areas. X550 Carpark Warehouse™ can be re-applied with a low-pressure spray by maintenance personnel – dry in approximately 30 minutes. Please note that although X550 Carpark Warehouse™ is an invisible penetrative densifier and sealer, it is likely that some darkening may appear on the treated surface, however this will have no detrimental effect on the performance of the product.

Storage & Shelf Life

- Must be stored out of direct sunlight.
- Storage temperature range: Max 38°C to Min 3°C.
- Shelf life is 3 years if stored as above in original unopened containers.
- To avoid contamination, decanted product must not be returned to container.
- Recommended usage: within – 30 days of opening.

Available in 5, 15, 200 and 1,000 litre containers.

Contact

We have technical expertise and experience to help and consult on your future projects or assist your existing projects maintain time and budget.

Australia, UK, & Asia Contact Oxtek Solutions Head Office: Call +61 3 9798 7534 or email reception@oxtek.com.au

New Zealand Contact:
Gilt Edge Industries call 0800 445 833 CHC: 03 379 7067 AKL: 09 443 7067 or email help@giltedge.co.nz.