



**GILT EDGE
INDUSTRIES LIMITED**

FLOORING PREPARATION AND INSTALLATION SPECIALISTS



**THE NAME
SAYS IT ALL**

Moisture Control Data Book

**EVERY FLOORING INSTALLATION
DESERVES THE "GILT EDGE" FINISH**

MARCH 2022



Gilt Edge Industries Contact List

<u>Auckland - Glenfield</u>			
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
Nigel Rawthorn	Storeman	09 443 7067	glenfield@giltedge.co.nz
Ian Williams	Commercial & Architectural Consultant	0274 364 642	ian@giltedge.co.nz
<u>Auckland - Penrose</u>			
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	Store Manager	09 579 7067	penrose@giltedge.co.nz
Larissa Huia	Auckland/Northland Sales Consultant	0274 364 005	larissa@giltedge.co.nz
Steve Robinson	Auckland Sales Consultant	027 779 9337	steve@giltedge.co.nz
<u>Whangarei</u>			
Guthrie Bowron	34 Porowini Avenue Whangarei		
Larissa Huia	Auckland/Northland Sales Consultant	0274 364 005	larissa@giltedge.co.nz
<u>Hamilton</u>			
Hamilton Store	10 Haig Street 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
<u>Tauranga</u>			
Tauranga Store Phil Rankin	Unit 3, 33 Burrows Street Tauranga	07 571 8244	Fax 07 847 6924
	Depot Manager	027 213 7209	tauranga@giltedge.co.nz
Duncan McDonnell	BOP Waikato Sales Consultant	027 223 4147	duncan@giltedge.co.nz
<u>Palmerston North</u>			
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 Slaes Consultant	0274 364 646	tony@giltedge.co.nz
<u>Wellington</u>			
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
<u>Nelson</u>			
Nelson Store	8b Tokamaru Place Nelson	03 544 5778	Fax 03 548 1814
John Bradley	Store Manager	03 544 5778	
Craig Kennelly	South Island Sales Manager	0274 387 266	craig@giltedge.co.nz
<u>Christchurch Head Office</u>			
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
Jess Fuldseth	Office Administrator	03 379 7067	office@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
<u>Timaru</u>			
Dores for Floors	41 Bank Street Timaru		
Craig Kennelly	South Island Sales Manager	0274 387 266	craig@giltedge.co.nz
<u>Dunedin</u>			
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 GRETE

THE NAME SAYS IT ALL



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 distributor to discuss your project.



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.

a) 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

b) Coverage

- One litre of DP covers 4.5m2.

c) Application

- spray application by trained applicator

d) 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



THE NAME SAYS IT ALL

X100 GREEN CURE

Technical Data Sheet

Issued: 3rd September 2020
Document #: TDS 100 V1 NZ
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Description & Uses

A non membrane forming colloidal silicate proprietary solution that provides an exceptional cure regime equal to water pond curing. Apply to the concrete surface immediately after initial set. Very effective cure regime for shot crete. Conforms to and achieves the cure requirements of **NZS 3109:1997** and **NZS 3101:Part 1:2006**.

Features and Benefits

- Will cure concrete equal to water pond curing.
- Virtually eliminates plastic cracking.
- Low cost cure regime.
- Hardens surface and reduces dusts.
- Reduces shrinkage.
- Retards efflorescence.
- Can be used on vertical or horizontal substrates.
- Zero VOC, environmentally friendly, user safe.
- Compatible with most flooring and coating systems.
- After trade friendly.
- Indefinite shelf life.
- Minimum site disruption, trafficable after 2 hours.

Testing and Certifications

The American Concrete Institute, ACI, defines curing as, "The process by which hydrolic-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." Water curing is widely regarded 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 Cure is not a membrane-forming compound, so **AS 3799:1998** is not relevant.

The goal of curing is to improve the hardened properties of concrete. When applied properly **X100 Green Cure** achieves the cure results required under **NZS 3109:1997 Concrete Construction** and **NZS 3101: Part 1 2006**.

Recommended Substrate Conditions & Preparation

Important Notes:

1. Spray apply **X100 Green Cure** at a minimum of the Recommended Application Rates.
2. Do not apply on frozen substrate or when temperature is below 3°C when getting colder.
3. Do NOT apply if rain is forecast within 3 hours. If rain occurs in this time frame call your distributor for advice.
4. **X100 Green 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. On burnished concrete spread rate can be extended, contact us for advice.

Additional Data and Precautions

Available in 5, 15, 200 and 1000 litre containers.

1. Protect areas not intended for coverage.
2. As good safety practice during spraying we recommend the use of a face mask during application. Refer to SDS.
3. Restrict access to areas being treated as surface may be slippery until all product has dropped in or removed from surface.
4. The green colour in **X100 Green Cure** aids application and dissipates after drying.
5. For more information read Material Safety Data Sheet available at www.giltedge.co.nz



THE NAME SAYS IT ALL

X100 GREEN CURE

Technical Data Sheet

Subsequent Coverings and Coatings

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X100 Green Cure does not provide a vapour or moisture barrier for impervious floorcoverings or coatings. Oxtex distributes and manufactures **Protect Crete X200 Densi Proof™** and **X220 Moisture-Fix®** that are designed for complete and permanent protection against vapour and water damage potential. If your building has a finishes scheduled for impervious flooring and or coatings you should specify and use **X200 Densi Proof™** at time of pour in lieu of **X100 Green Cure**. You will achieve the same cure benefits and have a warranted moisture suppression system that has stood the test of time in Australia and New Zealand

for over 19 years. If you realise that you will require a moisture barrier after the **X100 Green Cure** application **Moisture-Fix** can be applied over the top with minimum preparation again for a fully warranted moisture barrier system. **X200 Densi Proof™** and **X220 Moisture-Fix®** treat excess moisture established by testing as described in **Appendix A Floor Coverings Standard NZS 1884:2013**

Also see **Protect Crete X550 Carpark Warehouse** for an improved quality and stain resistant polished floor system.

Application Guide

APPLICATION RATES

Burnished or steel troweled : 5m² per litre.
Broom finished or open surfaced: 5m² per litre.

As a Cure Method at Time of Pour:

For optimum cure benefits it is ideally applied to the newly-poured concrete surface as soon as is practical following its surface finishing phase. Should 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 mar its surface during application.

Apply evenly with a low-pressure non-atomizing, spray apparatus such as a pump-tank sprayer or battery pack sprayer. Allow material to penetrate (drop in) the surface and if you find that after an hour, that some areas have totally dropped and some not, then distribute the excess product over the dry areas. It is important that the product 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 material on the surface. Do

not allow product to dry in puddles.

Caution: Like many construction materials including fresh concrete **X100 Green Cure** contacting glass should be flushed with water and not be allowed to dry, since glass may etch. **X100 Green Cure** will dull brushed and shiny aluminium, however, aluminium's integrity will be otherwise unaffected. Avoid windblown spray contamination of parked vehicles and adjacent buildings.

HOT TEMPERATURES Be sure to utilise good hot weather concrete placement techniques such as night pouring, shading or use of aliphatic alcohol to cool concrete during trowelling. 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 **X100 Green Cure** 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.

CLEAN UP Clean up with water.

TRAINING Call Gilt Edge to arrange complimentary on site training for your staff or applicators.

Physical & Chemical Properties

Appearance:	Low viscosity liquid.
Colour:	Clear green hue
Odour:	Almost none.
pH:	Ca. 11.3.
Vapour Pressure:	Not available.
Vapour Density:	Not available.
Boiling Point/ Range:	> 100°C @ 760 mm Hg.
Solubility in Water:	Fully miscible.
Specific Gravity:	Ca. 1.08.
Flashpoint:	Not applicable.
Auto Ignition Temperature:	Product is not self igniting.
Flammability Limits:	Not applicable.
Viscosity:	Low.
Chemical Stability:	Stable under normal conditions.
Stability:	Stable at normal temperatures and pressure.
Thermal Decomposition:	No decomposition if used according to specifications.
Dangerous Reactions:	Strong exothermic reaction with acids. Reacts with light alloys to form hydrogen.
Conditions to Avoid:	Avoid contact with incompatible materials.
Materials to Avoid:	Acids, light alloys.
Hazardous Decomposition Products:	No dangerous decomposition products known.



For more information visit : www.giltedge.co.nz



Gilt Edge Industries
CHC: 03 379 7067
AKL: 09 443 7067
PH: 0800 445833
Email: help@giltedge.co.nz

Technical & Sales Assistance
Email: sales@giltedge.co.nz
www.giltedge.co.nz

Manufactured by Oxtex Australia



THE NAME SAYS IT ALL

X200 DENSI-PROOF™

Technical Data Sheet

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PERMANENT CONCRETE CURE MOISTURE CONTROL & PROTECTION

Description & Uses

X200 Densi-Proof™ is a single pack one application spray-on system that deeply penetrates new or existing concrete, providing 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** and **NZS 3101:Part 1:2006**.

Features and Benefits

- Will cure concrete equal to water pond curing.
- Permanently waterproofs concrete from any direction.
- Moisture barrier for impervious coatings and coverings.
- Makes concrete impermeable, increasing longevity.
- Exceptional densifier and hardener for concrete.
- Increases tensile & compressive strength.
- Resists freeze thaw damage.
- Retards efflorescence.
- Can be used on vertical or horizontal substrates.
- Zero VOC, environmentally friendly, user safe.
- Suitable for new and existing concrete.
- Compatible with flooring systems and concrete coatings.
- After trade friendly.
- Indefinite shelf life.
- Substantially reduces dry shrinkage cracking.
- Stabilises concrete pH.
- Minimum site disruption, trafficable after 2 hours.
- Water cleanup.

Physical and Chemical Properties

Appearance:

Odour:

pH:

Initial Boiling Point / Boiling Range:

Flash-point:

Flammability (solid, gas):

Relative Density:

Upper/Lower Flammability or Explosive Limits:

Solubility:

Auto-ignition Temperature:

Viscosity:

Volatile Organic Compounds (VOC) Content:

Low viscosity cloudy-white liquid.

Almost none.

Ca. 11.4

> 100°C @ 760 mm Hg.

Not applicable.

Not applicable.

Ca. 1.10 @ 20°C.

Not applicable.

Fully miscible in water.

Product is not self-igniting.

Low.

0.0 % w/w.

Recommended Substrate Conditions & Preparation

Freshly Placed Concrete: 5m² per litre

Existing Concrete: 5m² per litre

Important Notes:

1. Dusts, wax, paint, curing compounds, adhesives or a burnished surface restricting access to concrete's interior must be chemically or mechanically removed for X200 Densi-Proof™ to penetrate and work properly.
2. Areas of high porosity have a faster penetration rate. These areas appear dry immediately after spraying and will require additional product. Surface will usually remain ponded for about 15 minutes after application then progressively soak into concrete over the next 45 minutes. Squeegee off excess product after 1 hour
3. Do not apply on frozen substrate or when temperature is below 3°C when getting colder. Call for advice if applying during colder periods.
4. Outdoors DO NOT apply if rain is forecast within 3 hours.
5. After applying to already set and cured concrete and before applying any paint, adhesives or any other coatings, wait a minimum of 24 hours after

application of X200 Densi-Proof™. Check that concrete surface is dry and any purging has completed.

Pressure wash or sand clean. Always follow coating or covering manufacturer's surface preparation requirements. Pressure wash or abrade floor clean, then check visually that purging of any contaminants has completed. If being used to purge contamination addition applications may be required. Contact Gilt Edge for a site specific Specification if required.

6. Concrete being treated must be fit for purpose for proper function of X200 Densi-Proof™. Structural, control and cold joint or large cracks will not be repaired with a X200 Densi-Proof™ application.
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.

Available in 5, 15, 200 and 1000 litre containers.

Refer to MSDS available from

www.giltedge.co.nz



THE NAME SAYS IT ALL

X200 DENSI-PROOF™

Technical Data Sheet

Application Guide

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Note: In hot climates, mist-wet the surface with water and remove any puddles prior to application. Use best hot weather concrete placement techniques. Use of Alaphatic alcohol will not affect X200 Densi-Proof

On Already-Set Existing Concrete:

Apply X200 Densi-Proof™ using a low-pressure non-atomizing, spray apparatus such as a pump-tank sprayer or a battery pack sprayer, complete with fan spray nozzle (eg .019" - .024"). Holding spray tip 150mm from surface, apply X200 Densi-Proof™ at minimum rate of **5m² per litre** with an overlapping spray pattern of 50%. Walls and slopes should be applied side to side, from the bottom up. Use of dust mask is recommended. Using a soft broom sweep and spread out puddled product as it penetrates. Do not allow product to puddle dry on the surface (remove off surface after one hour). If product gels on the surface remove with a squeegee.

At Time of Concrete Pour:

Apply with a low-pressure non-atomizing, spray apparatus such as a pump-tank sprayer or battery pack sprayer. X200 Densi-Proof™ is ideally applied to the newly-poured concrete surface as soon as is practical following its surface finishing phase. Should 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 mar its surface during application. Recommended minimum coverage rate is **5m² per litre**. Floor coverings and coatings can be installed after 14 days from concrete placement and X200 Densi-Proof™ application. If application is required before 14 days please contact your Gilt Edge representative.

Caution: 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.

Warranty Registration & Training

An issued 15 year warranty is project specific and will require us to provide consultation, a site specific specification and a registered specification/warranty number prior to the commencement of product application. A Warranty Application Form, will be forwarded to the

applicator, and must be completed in full by the applicator, and forwarded to **Gilt Edge Industries** at the end of the project. For all customers requiring a written warranty, all applicators must be fully trained, and approved by either **Gilt Edge Industries** or **Protect Crete NZ Ltd.**

Testing and Certifications

Middle Tennessee
State University
Testing and Review



Test		Control Sample*	Densi Proof Sample	Results Comparison
Designation	Property			
AS 1012.9 ASTM C39	Compressive Strength	28.9 MPa 4,191 psi	31.0 MPa 4,496 psi	7% Increase
AS 1012.8 ASTM C78	Flexural Strength	2.52 MPa 365 psi	2.89 MPa 419 psi	18% Increase
Chaplin Abrader	Abrasion Loss	2.47 mm 0.10 in	1.46 mm 0.06 in	41% Reduction
Surface Dusting		2.57 g/0.25 m ²	1.78 g/0.25 m ²	31% Reduction
ASTM C1202	Rapid Chloride Penetration	597 / 543 / 10,097 Coulombs	148 / 136 / 6,582 Coulombs	35% to 75% Reduction
HKHA B2.9	Sorptivity	0.164 mm/(min) ^{1/2}	0.010 mm/(min) ^{1/2}	94% Reduction
ACCI Water Permeability Test	Water Permeability	1.5 x 10 ⁻¹³ m/s	2.5 x 10 ⁻¹⁴ m/s	83% Reduction
USACOE C48	Water Permeability	NA	0 Leakage @ 30.5 m Head Pressure 0 Leakage @ 100 ft Head Pressure	
DIN 1048	Water Permeability	98.4 mm @ 0.33 hrs 3.9 in @ 0.33 hrs	5.5 mm @ 72 hrs 0.22 in @ 72 hrs	94% Reduction
ASTM C666	Mass Loss @ 300 Freeze/Thaw Cycles	4.8%	0.7%	85% Reduction

*Note - All control samples were moisture cured.

March 2013

For more information visit : www.giltedge.co.nz



Gilt Edge Industries
CHC: 03 379 7067
AKL: 09 443 7067
PH: 0800 445833
Email: help@giltedge.co.nz

Technical & Sales Assistance
Email: sales@giltedge.co.nz
www.giltedge.co.nz

Manufactured by Oxtex Australia



THE NAME SAYS IT ALL

X220 MOISTURE FIX[®]

Technical Data Sheet

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PERMANENT CONCRETE CURE MOISTURE CONTROL & PROTECTION



Description & Uses

X220 Moisture Fix[®] is a single pack one application pour and spread or low pressure spray system, that deeply penetrates new or existing concrete, provides permanent waterproofing, curing and protection. X220 Moisture Fix[®] conforms to the moisture suppressant requirements as per New Zealand Floor Covering Standard: **NZAS1884-2013**. It provides an effective moisture barrier for floor coverings and coatings, and achieves the cure requirements of **NZS 3109,1997 & NZS 3101:Part 1:2006**.

Features and Benefits

- Moisture barrier for impervious coating and coverings.
- Permanently waterproofs concrete from any direction.
- Makes concrete impermeable, increasing longevity.
- Reduces shrinkage cracking
- Exceptional densifier and hardener for concrete.
- Increases tensile & compressive strength.
- Resists freeze thaw damage.
- Retards efflorescence.
- Can be used on vertical or horizontal substrates.
- Zero VOC, environmentally friendly, user safe.
- Compatibility with most flooring systems.
- After trade friendly.
- Minimum site disruption, trafficable after 2 hours.
- Stabilises pH.
- Will cure concrete equal to water pond curing.
- 15 year warranty available (see page 3)

Physical and Chemical Properties

Appearance:	Low viscosity liquid.
Colour:	Clear Blue Hue
Odour:	Almost none.
pH:	Ca. 11.4.
Vapour Pressure:	Not available.
Vapour Density:	Not available.
Boiling Point/ Range:	> 100°C @ 760 mm Hg.
Solubility in Water:	Fully miscible.
Specific Gravity:	Ca. 1.10.
Flashpoint:	Not applicable.
Auto Ignition Temperature:	Product is not self igniting.
Flammability Limits:	Not applicable.
Viscosity:	Low.
Stability:	Stable under normal conditions.
Chemical Stability:	Stable at normal temperatures and pressure.
Thermal Decomposition:	No decomposition if used according to specifications.
Dangerous Reactions:	Strong exothermic reaction with acids. Reacts with light alloys to form hydrogen.
Conditions to Avoid:	Avoid contact with incompatible materials.
Materials to Avoid:	Acids, light alloys.
Hazardous Decomposition Products:	No dangerous decomposition products known.

Subsequent Coverings and Coatings

Before applying any paint, adhesives or any other coatings, wait a minimum of 24 hours after application of X220 Moisture Fix[®] to existing cured concrete. Check that concrete surface is dry and any purging has completed. Pressure wash or sand clean. Always follow coating or covering manufacturer's surface preparation requirements.

If being used to purge contamination additional applications may be required.

On a new slab, after application of Moisture Fix[®], wait a minimum of 14 days from the date of the concrete pour. If you are pressed to lay prior to the 14 day period call your Gilt Edge office.



THE NAME SAYS IT ALL

X220 MOISTURE FIX[®] Technical Data Sheet

Recommended Substrate Conditions & Preparation

Issued: 3rd September 2020
Document #: TDS 220 V1 NZ
Page 2 of 3

Freshly Placed Concrete:	5m ² per litre.
Existing Concrete:	5m ² per litre.
New or existing:	4m ² per litre if applied by pour and spread.

Important Notes:

1. Wax, paint, curing compounds, old adhesive or a burnished surface restricting access to concrete's interior must be chemically or mechanically removed for X220 Moisture Fix[®] to penetrate and work properly. To test for adequate porosity apply droplets of water or X220 on the concrete surface. Agitate droplets to break surface tension. If the droplets do not penetrate into the concrete within 5 minutes then X220 Moisture Fix[®] will not function properly and may be ineffective.
2. Areas of high porosity have a faster penetration rate. These areas appear dry immediately after applying and will require additional product.
3. Do not apply on frozen substrate or when temperature is below 3°C when getting colder. Call for advice if applying during colder or hotter periods.

4. Exterior Works, Do NOT apply if rain is forecast within 3 hours.
5. Concrete being treated must be fit for purpose for proper function of X220 Moisture Fix[®]. Structural, control and cold joint or large cracks will not be repaired with a X220 Moisture Fix[®] application.
6. Before applying any paint, adhesives or any other coatings, wait 24 hours after application with X220 Moisture Fix[®]. Pressure wash or abraid and clean, then check visually to be satisfied purging has completed (if required a second or subsequent coats may be necessary). Always follow coating manufactures surface requirements.
7. If you are 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. Contact your Gilt Edge store for helpful application instructions. Refer to MSDS available from www.giltedge.co.nz

Application Guide

On Existing Already Set or Cured Concrete:

Application can be by pour and spread, for small areas, and by low pressure spray (pump up knapsack type). It is important that the product 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 material on the surface.

Allow material to penetrate (drop into) the surface and if you find that some areas have totally dropped and some not, then distribute the excess product over the dry areas. 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.

Product should usually sit up on the concrete surface for about 15 minutes, then gradually soak in over the next 45 minutes. Remove excess after 1 hour.

Using a soft broom, sweep and spread out puddled product as it penetrates with a soft broom. Do not allow product to puddle dry on the surface. If product gels on the surface remove with a squeegee.

As a Cure Method at Time of Pour:

Apply with a low-pressure non-atomizing, spray apparatus such as a pump-tank or battery pack sprayer. Allow material to penetrate (drop in) the surface and if you find that some areas have totally dropped and some not, then distribute the excess product over the dry areas. For optimum cure benefits it is ideally applied to the newly-poured concrete surface as soon as is practical following its surface finishing phase. Should 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 mar its surface during application. Recommended

minimum coverage rate as a cure method is **5.0m² per litre**. Floor coverings and coatings can be installed after 14 days from concrete placement and X220 Moisture Fix[®] application.

Caution: Like many construction materials including fresh concrete X220 Moisture Fix[®] contacting glass/tiles should be flushed with water and not be allowed to dry, since glass may etch. X220 Moisture Fix[®] will dull the shine on shiny aluminium, however, aluminium's integrity will be otherwise unaffected.

Hot & 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°C and falling. X220 Moisture Fix[®] is not affected at all by temperature change after 24 hours, not even in freeze thaw conditions.

Existing Concrete 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 some where, broken pipes, hydrostatic pressure etc for old concrete to remain this wet. This cause should be investigated. Contact Gilt Edge for further information as an additional coat or change of application procedure may be required.

Clean Up Clean up with water. X220 Moisture Fix[®] is alkaline and just like so many other materials which are commonly used in the home and building Industry, such as wet concrete, cement mortar, some cleaning materials etc, X220 Moisture Fix[®] should not be allowed to dry on glass/tiles or polished aluminum as an etching effect will occur. It is important to cover first, or remove by water wash before drying occurs. Do not walk onto adjacent finished surfaces as marking may be permanent.



THE NAME SAYS IT ALL

X220 MOISTURE FIX[®]

Technical Data Sheet

Additional Advice and Precautions

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Available in 5, 15, 200 and 1000 litre containers.

1. Any coatings or burnished surface that may restrict access to the concrete's interior must be chemically or mechanically removed for X220 Moisture Fix[®] to penetrate.
2. As good safety we recommend the use of a face mask during application. Refer to MSDS.
3. Restrict access to areas being treated as surface may be slippery until all product has dropped in or removed from surface.
4. Do not apply by dipping broom or brush directly into the pail as this will contaminate the product. Low pressure spray or on extremely small jobs a plastic watering 'can' can be used to obtain an even spread of product instead of utilising a low pressure spray unit. Do not roller apply.
5. For more information read Material Safety Data Sheet available at www.giltedge.co.nz

Warranty Registration & Training

An issued 15 year warranty is project specific and will require us to provide consultation, a site specific specification and a registered specification/warranty number prior to the commencement of product application. A Warranty Application Form, will be forwarded to the applicator, and must be completed in full by the applicator, and forwarded to **Gilt Edge Industries** at the end of the project.

For all customers requiring a written warranty, all applicators must be fully trained, and approved by either **Gilt Edge Industries** or **Protect Crete NZ Ltd**. Full training and installation advice is available for the full **Protect Crete** product range. Call your local **Gilt Edge** store to arrange this complimentary help today.

www.giltedge.co.nz

Testing and Certifications

Middle Tennessee State University
Testing and Review



Test		Control Sample*	Moisture Fix Sample	Results Comparison
Designation	Property			
AS 1012.9 ASTM C39	Compressive Strength	28.9 MPa 4,191 psi	31.0 MPa 4,496 psi	7% Increase
AS 1012.8 ASTM C78	Flexural Strength	2.52 MPa 365 psi	2.89 MPa 419 psi	15% Increase
Chaplin Abrader	Abrasion Loss	2.47 mm 0.10 in	1.46 mm 0.06 in	41% Reduction
Surface Dusting		2.57 g/0.25 m ²	1.78 g/0.25 m ²	31% Reduction
ASTM C1202	Rapid Chloride Penetration	597 / 543 / 10,097 Coulombs	148 / 136 / 6,582 Coulombs	35% to 75% Reduction
HKHA B2.9	Sorptivity	0.164 mm/(min) ^{1/2}	0.010 mm/(min) ^{1/2}	94% Reduction
ACCI Water Permeability Test	Water Permeability	1.5 x 10 ⁻¹³ m/s	2.5 x 10 ⁻¹⁴ m/s	83% Reduction
USACOE C48	Water Permeability	NA	0 Leakage @ 30.5 m Head Pressure 0 Leakage @ 100 ft Head Pressure	
DIN 1048	Water Permeability	98.4 mm @ 0.33 hrs 3.9 in @ 0.33 hrs	5.5 mm @ 72 hrs 0.22 in @ 72 hrs	94% Reduction
ASTM C666	Mass Loss @ 300 Freeze/Thaw Cycles	4.8%	0.7%	85% Reduction

*Note – All control samples were moisture cured.

March 2013

For more information visit: www.giltedge.co.nz



Gilt Edge Industries
CHC: 03 379 7067
AKL: 09 443 7067
PH: 0800 445833
Email: help@giltedge.co.nz

Technical & Sales Assistance
Email: sales@giltedge.co.nz
www.giltedge.co.nz

Manufactured by Oxtex Australia



THE NAME SAYS IT ALL

X230 DENSI-PROOF REPELLER™

Technical Data Sheet

Issued: 3rd September 2020
Document #: TDS 230 V1 NZ
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INTERNAL AND EXTERNAL PROTECTION FOR CONCRETE



Description & Uses

X230 Densi Proof™ Repeller is a single pack one application spray on system that deeply penetrates new or existing concrete, curing, permanent waterproofing and protection. The added X300 Repeller provides ease of cleaning and surface protection against acids, oils, water based stains, chemicals, body fluids, wine, grease and others. Conforms to the moisture suppressant requirements as per **NZAS1884-2013** and achieves the cure requirements of **NZS 3109:1997** and **NZS 3101:Part 1:2006**.

Features and Benefits

- Will cure concrete equal to water pond curing.
- Permanently waterproofs concrete from any direction.
- Makes concrete impermeable, increasing longevity.
- Resists surface staining.
- Increases tensile & compressive strength.
- Resists freeze thaw damage.
- Retards efflorescence.
- Stabilises pH.
- Used on horizontal substrates.
- Zero VOC, environmentally friendly, user safe.
- Compatible with epoxy and acrylic line marking paints.
- Eliminates moulds and odours.
- Indefinite shelf life.
- Minimum site disruption, trafficable after 2 hours.
- Reduces dry shrinkage cracking.
- Worn areas can be touched up without a full floor recoat.

Physical and Chemical Properties

Appearance:

Odour:

pH:

Initial Boiling Point / Boiling Range:

Flash-point:

Flammability (solid, gas):

Upper/Lower Flammability or Explosive Limits:

Relative Density:

Solubility:

Auto-ignition Temperature:

Viscosity:

Volatile Organic Compounds (VOC) Content:

Per Cent Volatile:

Low viscosity cloudy-white liquid.

Almost none.

Ca. 11.4

> 100°C @ 760 mm Hg.

Not applicable.

Not applicable.

Not applicable.

Ca. 1.10 @ 20°C.

Fully miscible in water.

Product is not self-igniting.

Low.

0.0 % w/w.

Ca. 0 % w/w.

Recommended Substrate Conditions & Preparation

Freshly Placed Concrete: 5m² per litre.

Existing Concrete: 5m² per litre

Important Notes:

1. Wax, paint, curing compounds, adhesives or a burnished surface restricting access to concrete's interior must be chemically or mechanically removed for X230 Densi-Proof™ Repeller to penetrate and work properly.
2. Areas of high porosity have a faster penetration rate. These areas appear dry immediately after spraying and will require additional product.
3. Do not apply on frozen substrate or when temperature is below 3°C when getting colder. Call for advice if applying during colder or hotter periods.
4. Do NOT apply if rain is forecast within 3 hours.
5. Before applying any paint, wait 24 hours after application with X230 Densi-Proof™ Repeller. Always follow paint manufacturers surface preparation guidelines and requirements.
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. We recommend the use of a painters mask during application. Refer to MSDS available from **www.giltedge.co.nz**



THE NAME SAYS IT ALL

X230 DENSI-PROOF REPELLER™

Technical Data Sheet

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Application Guide

Note: In hot climates, mist-wet the surface with water and remove any puddles prior to application. Use best hot weather concrete placement techniques.

On Already-Set Concrete:

Apply X230 Densi-Proof™ Repeller using a pump pack or battery pack sprayer complete with fan spray nozzle. 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%. 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 allow product to puddle dry on the surface. If product gels on the surface remove with a squeegee.

As a Cure Method at Time of Pour:

Apply with a low-pressure non-atomizing, spray apparatus such

as a pump-tank or battery pack sprayer. X230 Densi-Proof™ Repeller is ideally applied to the newly-poured concrete surface as soon as is practical following its surface finishing phase. Should 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 mar its surface during application. Recommended minimum coverage rate as a cure method is **5m² per litre**.

Caution: For newly placed unused concrete only.

For existing, soiled, used and old concrete a two part system can be used. X200 Densi-Proof™ will decontaminate and purge deep seated unwanted substances to the surface and these need to be removed prior to finishing with the X300 Repeller. Use a two part system of X200 Densi-Proof™ or X220 Moisture-Fix (refer to TDS) and then clean and apply X300 Repeller. Call your Gilt Edge Rep for advice.

Additional Data and Precautions

Available in 5, 15, 200 and 1000 litre containers.

1. X550 is a penetrative product which sets as CSH gel in the capillaries of the concrete. In new concrete pours particularly, minerals may purge to the surface and will appear as a white powdery substance. This can be

scrubbed off or will wear away.

2. X230 is such an effective sealer that a second application cannot be made once the product is dry. Work quickly to maintain a wet edge.

3. **MSDS** available at our websites.

Warranty Registration & Training

An issued 15 year warranty is project specific and will require us to provide consultation, a site specific specification and a registered specification/warranty number prior to the commencement of product application. A Warranty Application Form, will be forwarded to the applicator, and must be completed in full by the applicator, and

forwarded to **Gilt Edge Industries** at the end of the project. For all customers requiring a written warranty, all applicators must be fully trained, and approved by **Gilt Edge Industries**. Full training and installation advice is available for the full **Protect Crete** product range.

Testing and Certifications

Test		Control Sample*	Densi Proof Sample	Results Comparison
Designation	Property			
AS 1012.9 ASTM C39	Compressive Strength	28.9 MPa 4,191 psi	31.0 MPa 4,496 psi	7% Increase
AS 1012.8 ASTM C78	Flexural Strength	2.52 MPa 365 psi	2.89 MPa 419 psi	15% Increase
Chaplin Abrader	Abrasion Loss	2.47 mm 0.10 in	1.46 mm 0.06 in	41% Reduction
Surface Dusting		2.57 g/0.25 m ²	1.78 g/0.25 m ²	31% Reduction
ASTM C1202	Rapid Chloride Penetration	597 / 543 / 10,097 Coulombs	148 / 136 / 6,582 Coulombs	35% to 75% Reduction
HKHA B2.9	Sorptivity	0.164 mm/(min) ^{1/2}	0.010 mm/(min) ^{1/2}	94% Reduction
ACCI Water Permeability Test	Water Permeability	1.5 x 10 ⁻¹³ m/s	2.5 x 10 ⁻¹⁴ m/s	83% Reduction
USACOE C48	Water Permeability	NA	0 Leakage @ 30.5 m Head Pressure 0 Leakage @ 100 ft Head Pressure	
DIN 1048	Water Permeability	98.4 mm @ 0.33 hrs 3.9 in @ 0.33 hrs	5.5 mm @ 72 hrs 0.22 in @ 72 hrs	94% Reduction
ASTM C666	Mass Loss @ 300 Freeze/Thaw Cycles	4.8%	0.7%	85% Reduction

*Note – All control samples were moisture cured.

March 2013

For more information visit: www.giltedge.co.nz

Middle Tennessee State University
Testing and Review



Gilt Edge Industries
CHC: 03 379 7067
AKL: 09 443 7067
PH: 0800 445833
Email: help@giltedge.co.nz

Technical & Sales Assistance
Email: sales@giltedge.co.nz
www.giltedge.co.nz

Manufactured by Oxtex Australia



X260 MEDI-VET[®] SteriTouch[®]

Technical Data Sheet

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CURING WATERPROOFING & ANTIMICROBIAL PROTECTION

Description & Uses

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. **X260 Medi-Vet[®]** with, safe silver ion, **SteriTouch[®]** has independent antimicrobial testing showing complete protection against *E.coli* and *Methicillin Resistant Staphylococcus aureus*. **X260 Medi-Vet[®]** conforms to the moisture suppressant requirements as per New Zealand Floor Covering Standard: **NZAS1884-2013**. Provides an effective moisture barrier for impervious floor coverings and coatings and achieves the cure requirements of **NZS 3109:1997** and **NZS 3101:Part 1:2006**.



Features and Benefits

- Will cure concrete equal to water pond curing.
- Permanently waterproofs concrete from any direction.
- Moisture barrier for impervious coatings and coverings.
- Proven control of *E.coli* and *Staphylococcus aureus*- MRSA
- Makes concrete impermeable, increasing longevity.
- Exceptional densifier and hardener for concrete.
- Increases tensile & compressive strength.
- Resists freeze thaw damage.
- Retards efflorescence.
- Can be used on vertical or horizontal substrates.
- Zero VOC, environmentally friendly, user safe.
- Compatibility with most floorcovering systems and coatings.
- After trade friendly.
- Indefinite shelf life.
- Reduces dry shrinkage cracking.
- Stabilises pH.
- Minimum site disruption, trafficable after 2 hours.
- Water cleanup.

Physical and Chemical Properties

Appearance:	Low viscosity cloudy-white liquid.
Odour:	Almost none.
pH:	Ca. 11.4
Initial Boiling Point / Boiling Range:	> 100°C @ 760 mm Hg.
Flash-point:	Not applicable.
Flammability (solid, gas):	Not applicable.
Relative Density:	Ca. 1.10 @ 20°C.
Upper/Lower Flammability or Explosive Limits:	Not applicable.
Solubility:	Fully miscible in water.
Auto-ignition Temperature:	Product is not self-igniting.
Viscosity:	Low.
Volatile Organic Compounds(VOC) Content:	0.0 % w/w.

Recommended Substrate Conditions & Preparation

Freshly Placed Concrete: 5m² per litre.
Existing Concrete: 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 and work properly.
2. Areas of high porosity have a faster penetration rate. These areas appear dry immediately after spraying and will require additional product.
3. Do not apply on frozen substrate or when temperature is below 3°C when getting colder. Call for advice if applying during colder periods.
4. Do NOT apply if rain is forecast within 3 hours.
5. Before applying any paint, adhesives or any other coatings on existing cured concrete, wait 24 hours after application with **X260 Medi-Vet[®]**. Pressure wash or sand and clean, then check visually to be satisfied purging has completed (If required a second or subsequent coats may be required). Always follow coating manufactures surface preparation requirements.
6. **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. Avoid walking product on other finishes.
7. We recommend the use of a painters mask during application. Refer to MSDS available from www.giltedge.co.nz



THE NAME SAYS IT ALL

X260 MEDI-VET[®] SteriTouch[®]

Technical Data Sheet

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Application Guide

Note: In hot climates, mist-wet the surface with water and remove any puddles prior to application. Employ best practice hot weather placement methods.

On Already-Set Concrete: Apply **X260 Medi-Vet[®]** using a low-pressure non-atomizing, 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 **X260 Medi-Vet[®]** 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 allow product to puddle dry on the surface (remove off surface after one hour). If product gels on the surface remove with a squeegee. Before applying any paint, adhesives or any other coatings, wait a minimum of 24 hours after application

of **X260 Medi-Vet[®]**. Check that concrete surface is dry and any purging has completed. Pressure wash or sand clean. Always follow coating or covering manufacturer's surface preparation requirements.

At Time of Pour:

Apply with a low-pressure non-atomizing, spray apparatus such as a pump-tank or battery pack sprayer. **X260 Medi-Vet[®]** is ideally applied to the newly-poured concrete surface as soon as is practical following its surface finishing phase. Should 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 mar its surface during application. Recommended minimum coverage rate is **5m² per litre**. Floor coverings and coatings can be installed after 14 days from concrete placement and **X260 Medi-Vet[®]** application.

Additional Data and Precautions

Available in 5, 15, 200 and 1000 litre containers.

1. Protect areas not intended for coverage.

2. In windy conditions take care to avoid spray drift damage to parked vehicles and buildings.

Warranty Registration & Training

An issued 15 year warranty is project specific and will require us to provide consultation, a site specific specification and a registered specification/warranty number prior to the commencement of product application. A Warranty Application Form, will be forwarded to the applicator, and must be completed in full by the applicator, and forwarded to **Gilt Edge Industries** at the end of the project.

For all customers requiring a written warranty, all applicators must be fully trained, and approved by either **Gilt Edge Industries** or **Protect Crete NZ Ltd**. Full training and installation advice is available for the full **Protect Crete** product range. Call your local **Gilt Edge** store to arrange this complimentary help today.

www.giltedge.co.nz

Testing and Certifications

Middle Tennessee
State University
Testing and Review



Test		Control Sample	Medi Vet Sample	Results Comparison
Designation	Property	All concrete controls are water cured		
AS 1012.9 ASTM C39	Compressive Strength	28.9MPa 4,191 psi	31.0 MPa 4,496 psi	7% Increase
AS 1012.8 ASTM C78	Flexural Strength	2.52 MPa 365 psi	2.89 MPa 419 psi	15% Increase
Chaplin AbraderA	brasion Loss	2.47 mm 0.10 in	1.46 mm 0.06 in	41% Reduction
Surface Dusting		2.57 g/0.25 m ²	1.78 g/0.25 m ²	31% Reduction
ASTM C1202	Rapid Chloride Penetration	597 / 543 / 10.097 Coulombs	148 / 136 / 6.582 Coulombs	35% to 75% Reduction
HKHA B2.9	Sorptivity	0.164 mm/(min) ^{1/2}	0.010 mm/(min) ^{1/2}	94% Reduction
ACCI Water Permeability Tset	Water Permeability	1.5 x 10 ⁻¹³ m/s	2.5 x 10 ⁻¹⁴ m/s	83% Reduction
USACOE C48	Water Permeability	NA	0 Leakage @ 30.5 m Head Pressure 0 Leakage @ 100 ft Head Pressure	
DIN 1048W	ater Permeability	98.4 mm @ 0.33 hrs 3.9 in @ 0.33 hrs	5.5 mm @ 72 hrs 0.22 in @ 72 hrs	94% Reduction
ASTM C666	Mass Loss @ 300 Freeze/Thaw Cycles	4.80%0	.70%	85% Reduction
ISO 22196 JIS Z 2801:2000	Antimicrobial Performance*	Number of live organisms (Colony Forming Units)		>99.995% Reduction
		0 Hours 140000 24 Hours 220000	0 Hours 140000 24 Hours < 10	

*Test bacteria: *Escherichia coli*, Methicillin resistant *Staphylococcus aureus*

May 2018



For more information visit: www.giltedge.co.nz



Gilt Edge Industries
CHC: 03 379 7067
AKL: 09 443 7067
PH: 0800 445833
Email: help@giltedge.co.nz

Technical & Sales Assistance
Email: sales@giltedge.co.nz
www.giltedge.co.nz

Manufactured by Oxtex Australia



THE NAME SAYS IT ALL

X260 MEDI-VET[®] SteriTouch[®]

Technical Data Sheet

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SteriTouch is an established brand in antimicrobial technology, based in the UK. 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 **SteriTouch[®] X260 Medi-Vet[®]** creates a permanent barrier against the growth of bacteria, biofilm and moulds.

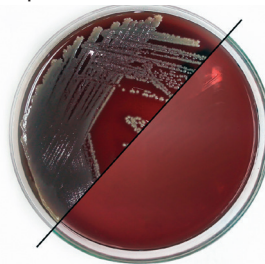
SteriTouch is safe. SteriTouch is an additive based on ionic silver. We do not use nano-silver, triclosan or other organic antimicrobial additives which have health and environmental concerns. The additives we use are non-leaching and non-sensitising.

SteriTouch gives continuous protection. Ionic silver based additives will not lose efficacy due to leaching or migration, they are evenly dispersed and embedded through out **X260 Medi-Vet[®]** even scratches and abrasion do not effect the antimicrobial performance. Cleaning chemicals such as chlorine bleach, disinfectants, alcohol and even harsh industrial products like MEK (methyl ethol keytone) will no diminish the antimicrobial properties of **X260 Medi-Vet[®]**

Independent Antimicrobial Test Report

Evaluation of the antimicrobial performance of samples containing antimicrobial additives. All testing is conducted by an independent laboratory using the ISO 22196 / JIS Z 2801:2000 test method, briefly summarised as follows;

Each test sample is inoculated with a suspension of the test organism. The inoculation is held in contact with the test sample using a sterile polyethylene film. All test samples are inoculated in triplicate, with an additional



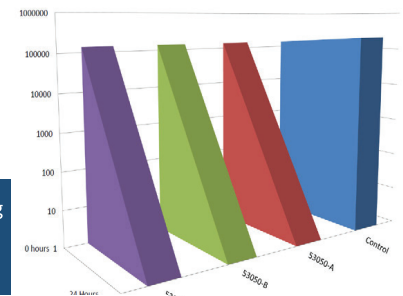
three replicates of the control. The bacterial population on three control replicates is evaluated immediately following inoculation.

This is assumed to be the initial population on all test samples (i.e. the population at zero hours. The remaining samples are incubated for the test period (24 hours)at 35°C, at which time the bacterial population is evaluated.

MRSA (Methaicillin Resistant Staphylococuss aureus)

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 polyethelene film	140000	220000	N/A	
53050-A	X260 Medi-Vet with ST1156	140000	<10	>99.99991% Reduction	EXCELLENT
53050-B	X260 Medi-Vet with ST1156	140000	<10	>99.99991% Reduction	EXCELLENT
53050-C	X260 Medi-Vet with ST1156	140000	<10	>99.99991% Reduction	EXCELLENT

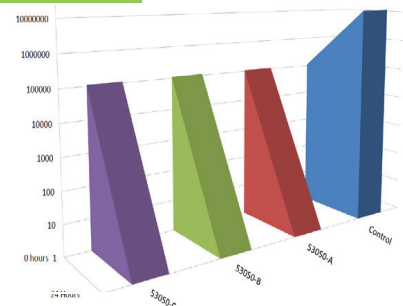


Notes: CFU = Colony Forming Units
The theoretical limit of detection is 10 CFU. If no bacteria are recovered the result is reported as "10 CFU".

Escherichai coli

Tested at 35°C

Sample		Number of live organisms (Colony Forming Units)		% reduction of Colony Forming Units, expressed as comparison with control	
		hours	4 hours		
Control	Untreated polyethelene film	110000	120000000	N/A	
53050-A	X260 Medi-Vet with ST1156	110000	<10	>99.99991% Reduction	EXCELLENT
53050-B	X260 Medi-Vet with ST1156	110000	<10	>99.99991% Reduction	EXCELLENT
53050-C	X260 Medi-Vet with ST1156	110000	<10	>99.99991% Reduction	EXCELLENT



For more information visit: www.giltedge.co.nz



Gilt Edge Industries
CHC: 03 379 7067
AKL: 09 443 7067
PH: 0800 445833
Email: help@giltedge.co.nz

Technical & Sales Assistance
Email: sales@giltedge.co.nz
www.giltedge.co.nz

Manufactured by Oxtex Australia



THE NAME SAYS IT ALL

X263 MEDI-VET[®] REPELLER

Technical Data Sheet

Issued: 3rd September 2020
Document #: TDS 263 V1 NZ
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SteriTouch[®] ANTIMICROBIAL WITH ADDED SURFACE PROTECTION



Description & Uses

X263 Medi-Vet[®] Repeller is a single pack one application spray on system that deeply penetrates new or existing clean concrete, permanently filling the concrete's porosity, provides 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*. The added **X300 Repeller[™]** provides surface protection and ease of cleaning against acids, oils, water based stains, chemicals, body fluids, wine, grease and others. conforms to the moisture suppressant requirements as per **NZAS1884-2013** and achieves the cure requirements of **NZS 3109:1997 and NZS 3101:Part 1:2006**.



Features and Benefits

- Will cure concrete equal to water pond curing.
- Permanently waterproofs concrete from any direction.
- Makes concrete impermeable, increasing longevity.
- Resists surface staining.
- Proven control of *E.coli* and *Staphylococcus aureus*.
- Resists freeze thaw damage.
- Retards efflorescence.
- Reduces surface erosion, extending concrete's life.
- Used on horizontal & vertical substrates.
- Zero VOC, environmentally friendly, user safe.
- Compatible with epoxy and acrylic line marking paints.
- Eliminates moulds and odours.
- Indefinite shelf life.
- Minimum site disruption, trafficable after 2 hours.
- Reduces dry shrinkage cracking.
- Independent antimicrobial efficacy testing.
- Substantially reduces cleaning water usage.
- Acid and effluent resistant.

Physical and Chemical Properties

Appearance:	Low viscosity cloudy-white liquid.
Odour:	Almost none.
pH:	Ca. 11.4
Initial Boiling Point / Boiling Range:	> 100°C @ 760 mm Hg.
Flash-point:	Not applicable.
Flammability (solid, gas):	Not applicable.
Upper/Lower Flammability or Explosive Limits:	Not applicable.
Relative Density:	Ca. 1.10 @ 20°C.
Solubility:	Fully miscible in water.
Auto-ignition Temperature:	Product is not self-igniting.
Viscosity:	Low.
Volatile Organic Compounds (VOC) Content:	0.0 % w/w.
Per Cent Volatile:	Ca. 0 % w/w.

Recommended Substrate Conditions & Preparation

Freshly Placed Concrete: 5m² per litre.
Existing Concrete: 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 and work properly.
2. Areas of high porosity have a faster penetration rate. These areas appear dry immediately after spraying and will require additional product.
3. Do not apply on frozen substrate or when temperature is below 3°C when getting colder. Call for advice if applying during colder or hotter periods.
4. Do NOT apply if rain is forecast within 3 hours.
5. Before applying any paint, wait 24 hours after application with **X263 Medi-Vet[®] Repeller**. Always follow paint manufacturer's surface preparation guidelines and requirements.
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 use of a face mask during application. Refer to MSDS available from **www.giltedge.co.nz**



THE NAME SAYS IT ALL

X263 MEDI-VET[®] REPELLER

Technical Data Sheet

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Application Guide

Note: In hot climates, mist-wet the surface with water and remove any puddles prior to application. Follow best accepted hot weather slab placing practice.

On Already-Set Concrete:

Apply **X263 Medi-Vet[®] Repeller** Apply with a low-pressure non-atomizing, spray apparatus such as a pump-tank sprayer or a battery pack sprayer, complete with fan spray nozzle. 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%. 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 allow product to puddle dry on the surface. If product gels on the surface remove with a squeegee.

As a Cure Method at Time of Pour:

Apply with a low-pressure non-atomizing, spray apparatus such

as a pump-tank sprayer or battery pack sprayer. **X263 Medi-Vet[®] Repeller** is ideally applied to the newly-poured concrete surface as soon as is practical following its surface finishing phase. Should 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 mar its surface during application. Recommended minimum coverage rate as a cure method is **5m² per litre**. Work quickly as when product dries it will repel itself.

Caution: For newly placed unused concrete only.

For existing, soiled, used and old concrete a two part system should be used. **X260 Medi-Vet[®]** will decontaminate and purge deep seated unwanted substances to the surface and these need to be removed prior to finishing with the **X310 Repeller SteriTouch[®]**.

Call your Gilt Edge Rep for advice. **0800 445833**

Additional Data and Precautions

Available in 5, 15, 200 and 1000 litre containers.

1. X550 is a penetrative product which sets as CSH gel in the capillaries of the concrete. In new concrete pours particularly, minerals may purge to the surface and will appear as a white

powdery substance. This can be scrubbed off or will wear away.

2. Restrict heavy use for 24 hours after application.

Warranty Registration & Training

An issued 15 year warranty is project specific and will require us to provide consultation, a site specific specification and a registered specification/warranty number prior to the commencement of product application. A Warranty Application Form, will be forwarded to the

applicator, and must be completed in full by the applicator, and forwarded to **Gilt Edge Industries** at the end of the project. For all customers requiring a written warranty, all applicators must be fully trained, and approved by **Gilt Edge Industries Ltd.**

Testing and Certifications

Middle Tennessee
State University
Testing and Review



Test		Control Sample	Medi Vet	Results
Designation	Property	All concrete controls are water cured	Sample	Comparison
AS 1012.9 ASTM C39	Compressive Strength	28.9MPa 4,191 psi	31.0 MPa 4,496 psi	7% Increase
AS 1012.8 ASTM C78	Flexural Strength	2.52 MPa 365 psi	2.89 MPa 419 psi	15% Increase
Chaplin AbraderA	brasion Loss	2.47 mm 0.10 in	1.46 mm 0.06 in	41% Reduction
Surface Dusting		2.57 g/0.25 m ²	1.78 g/0.25 m ²	31% Reduction
ASTM C1202	Rapid Chloride Penetration	597 / 543 / 10.097 Coulombs	148 / 136 / 6.582 Coulombs	35% to 75% Reduction
HKHA B2.9	Sorptivity	0.164 mm/(min) ^{1/2}	0.010 mm/(min) ^{1/2}	94% Reduction
ACCI Water Permeability Tset	Water Permeability	1.5 x 10 ⁻¹³ m/s	2.5 x 10 ⁻¹⁴ m/s	83% Reduction
USACOE C48	Water Permeability	NA	0 Leakage @ 30.5 m Head Pressure 0 Leakage @ 100 ft Head Pressure	
DIN 1048W	ater Permeability	98.4 mm @ 0.33 hrs 3.9 in @ 0.33 hrs	5.5 mm @ 72 hrs 0.22 in @ 72 hrs	94% Reduction
ASTM C666	Mass Loss @ 300 Freeze/Thaw Cycles	4.80%0	.70%	85% Reduction
ISO 22196 JIS Z 2801:2000	Antimicrobial Performance*	Number of live organisms (Colony Forming Units)		>99.995% Reduction
		0 Hours 140000 24 Hours 220000	0 Hours 140000 24 Hours < 10	

*Test bacteria: *Escherichia coli*, Methicillin resistant *Staphylococcus aureus*

May 2018



For more information visit: www.giltedge.co.nz



Gilt Edge Industries
CHC: 03 379 7067
AKL: 09 443 7067
PH: 0800 445833
Email: help@giltedge.co.nz

Technical & Sales Assistance
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Manufactured by Oxtex Australia



THE NAME SAYS IT ALL

X263 MEDI-VET[®] REPELLER

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SteriTouch is an established brand in antimicrobial technology, based in the UK. 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 **SteriTouch[®] X263 Medi-Vet[®] Repeller** creates a permanent barrier against the growth of bacteria, biofilm and moulds.

SteriTouch is safe. SteriTouch is an additive based on ionic silver.

We do not use nano-silver, triclosan or other organic antimicrobial additives which have health and environmental concerns. The additives we use are non-leaching and non-sensitising.

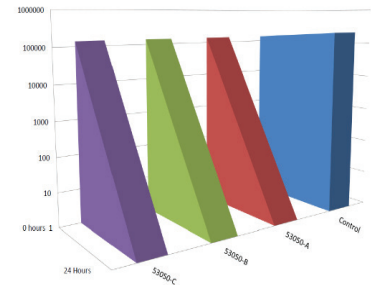
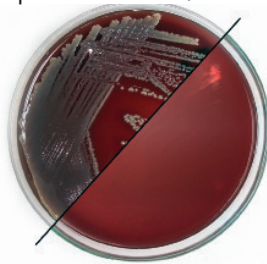
SteriTouch gives continuous protection. Ionic silver based additives will not lose efficacy due to leaching or migration, they are evenly dispersed and embedded through out **X263 Medi-Vet[®] Repeller** even scratches and abrasion do not effect the antimicrobial performance. Cleaning chemicals such as chlorine bleach, disinfectants, alcohol and even harsh industrial products like MEK (methyl ethol keytone) will no diminish the antimicrobial properties of **X263 Medi-Vet[®] Repeller**.

Independent Antimicrobial Test Report

Evaluation of the antimicrobial performance of samples containing antimicrobial additives. All testing is conducted by an independent laboratory using the ISO 22196 / JIS Z 2801:2000 test method, briefly summarised as follows;

Each test sample is inoculated with a suspension of the test organism. The inoculation is held in contact with the test sample using a sterile polyethylene film. All test

samples are inoculated in triplicate, with an additional three replicates of the control. The bacterial population on three control replicates is evaluated immediately following inoculation. This is assumed to be the initial population on all test samples (i.e. the population at zero hours. The remaining samples are incubated for the test period (24 hours) at 35°C, at which time the bacterial population is evaluated.



MRSA (Methicillin Resistant Staphylococcus aureus)

Tested at 35°C

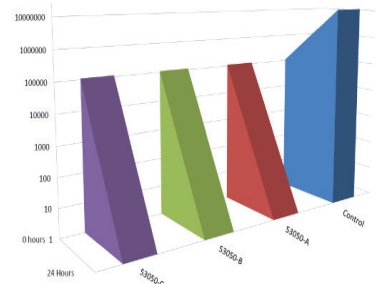
Sample		Number of live organisms (Colony Forming Units)		%reduction of Colony Forming Units, expressed as comparison with control	
		0 hours	24 hours		
Control	Untreated polyethelene film	140000	220000	N/A	
53050-A	X260 Medi-Vet with ST1156	140000	<10	>99.99991% Reduction	EXCELLENT
53050-B	X260 Medi-Vet with ST1156	140000	<10	>99.99991% Reduction	EXCELLENT
53050-C	X260 Medi-Vet with ST1156	140000	<10	>99.99991% Reduction	EXCELLENT

Notes: CFU = Colony Forming Units
The theretical limit of detection is 10 CFU. If no bacteria are recovered the result is reported as "10 CFU".

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 polyethelene film	110000	120000000	N/A	
53050-A	X260 Medi-Vet with ST1156	110000	<10	>99.99991% Reduction	EXCELLENT
53050-B	X260 Medi-Vet with ST1156	110000	<10	>99.99991% Reduction	EXCELLENT
53050-C	X260 Medi-Vet with ST1156	110000	<10	>99.99991% Reduction	EXCELLENT



For more information visit: www.giltedge.co.nz



Gilt Edge Industries
CHC: 03 379 7067
AKL: 09 443 7067
PH: 0800 445833
Email: help@giltedge.co.nz

Technical & Sales Assistance
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Manufactured by Oxtek Australia



THE NAME SAYS IT ALL

X280™ DENSI-PROOF™ REO PROTECT™

Technical Data Sheet



PERMANENT ENGINEERED PROTECTION FOR CONCRETE & STEEL REINFORCEMENT

Issued: 3rd September 2020
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Description & Uses

X280 Densi-Proof Reo Protect™ effectively prevents conditions that create and/or promote corrosion activity, arresting, or at the very least significantly retarding rust producing reactions.



Features and Benefits

- Prevents or Greatly Retards Any Future Corrosion
- Greatly Retards Existing Corrosion
- Significantly Densifies Concrete
- Internally Waterproofs Concrete
- Makes Concrete More Durable
- Suitable for steel fibre reinforcing
- Greater Surface Bondability
- Restricts Vapour Transmission
- Preserves Concrete's Integrity
- Eliminates Internal Water Migration
- Resists Freeze-Thaw Damage
- Adds Surface Abrasion Resistance
- Decreases Dusting Potential
- Increases Acid / Chemical Resistance
- Retards rainwater penetration and carbonation
- Lowers Chemical Reaction Potential

Physical and Chemical Properties

Appearance:

Odour:

pH:

Initial Boiling Point / Boiling Range:

Flash-point:

Flammability (solid, gas):

Flammability or Explosive Limits:

Relative Density:

Solubility:

Auto-ignition Temperature:

Viscosity:

Volatile Organic Compounds (VOC) Content:

Per Cent Volatile:

Low viscosity cloudy-white liquid.

Almost none.

Ca. 11.4

> 100°C @ 760 mm Hg.

Not applicable.

Not applicable.

Not applicable.

Ca. 1.10 @ 20°C.

Fully miscible in water.

Product is not self-igniting.

Low.

0.0 % w/w.

Ca. 0 % w/w.

Recommended Substrate Conditions & Preparation

Freshly Placed Concrete: One application @ 5m² per litre.

Existing Concrete: One application @ 5m² per litre.

1. Wax, paint, curing compounds, protective coatings, formwork release agents or a burnished surface restricting access to concrete's interior must be chemically or mechanically removed for **X280 Densi-Proof Reo Protect™** to penetrate and work properly.
2. Areas of high porosity have a faster penetration rate. These areas appear dry immediately after spraying and will require additional product. What has not soaked in after 1 hour should be removed with an air blower or squeegee.
3. Do not apply if the ambient temperature is below 3°C over 34°C. Plan to apply in the cool of the late afternoon or early morning. Mist wet the surface before applying in hot windy conditions.
4. Do not apply if raining or rain is expected within 3 hours of application completion. If rain falls on treated area within

3 hours of application call **Gilt Edge** for instruction and advice.

5. Before applying any paint, adhesives or any other coatings, wait minimum 24 hours after application with **X280 Densi-Proof Reo Protect™**. Pressure wash or sand and clean, then check visually to be satisfied purging has completed (If required a second or subsequent coats may be required). Always follow coating manufactures surface requirements.
6. **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. Avoid windblown spray drift. Do not walk product over other surfaces.
7. **X280 Densi-Proof Reo Protect™** spray mist has zero grams per litre VOC however, we do recommend the use of a face mask during application. Refer to MSDS at -

www.giltedge.co.nz

Available in 5, 15, 200 and 1000 litre containers.



THE NAME SAYS IT ALL

X280™ DENSI-PROOF™ REO PROTECT™

Technical Data Sheet

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Note: In hot climates, mist-wet the surface with water and remove any puddles prior to application. Use best hot weather concrete placement techniques. Use of Aliphatic alcohol will not affect **X280 Densi-Proof Reo Protect™**.

As a Cure Method at Time of Pour:

Apply with a low-pressure non-atomizing, spray apparatus such as a pump-tank or battery pack sprayer. **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 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 mar its surface during application. Recommended minimum coverage rate as a cure method is **5m² per litre** with an overlapping spray pattern of 50%.

On Already-Set Concrete:

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%.

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.

On verticle or over head surfaces back to back applications may be required to achieve 5m² per litre. Apply each coat to just prior to point of saturation.

Do not allow **X280 Densi-Proof Reo Protect™** to puddle dry on the surface. If product gels on the surface remove with a squeegee.

Warranty Registration & Training

An issued 15 year warranty is project specific and will require us to provide consultation, a site specific specification and a registered specification/warranty number prior to the commencement of product application. A Warranty Application Form, will be forwarded to the applicator, and must be completed in full by the applicator, and forwarded to **Gilt Edge Industries** at the end of the project.

For all customers requiring a written warranty, all applicators must be fully trained, and approved **Gilt Edge Industries Ltd.** Full training and installation advice is available for the full **Protect Crete** product range. Call your local **Gilt Edge** store to arrange this complimentary help today.

www.giltedge.co.nz

Testing and Certifications

Middle Tennessee State University
Testing and Review



Test		Control Sample*	Densi Proof Reo Protect Sample	Results Comparison
Designation	Property			
AS 1012.9 ASTM C39	Compressive Strength	28.9 MPa 4,191 psi	31.0 MPa 4,496 psi	7% Increase
AS 1012.8 ASTM C78	Flexural Strength	2.52 MPa 365 psi	2.89 MPa 419 psi	15% Increase
Chaplin Abrader	Abrasion Loss	2.47 mm 0.10 in	1.46 mm 0.06 in	41% Reduction
Surface Dusting		2.57 g/0.25 m ²	1.78 g/0.25 m ²	31% Reduction
ASTM C1202	Rapid Chloride Penetration	597 / 543 / 10,097 Coulombs	148 / 136 / 6,582 Coulombs	35% to 75% Reduction
HKHA B2.9	Sorptivity	0.164 mm/(min) ^{1/2}	0.010 mm/(min) ^{1/2}	94% Reduction
ACCI Water Permeability Test	Water Permeability	1.5 x 10 ⁻¹³ m/s	2.5 x 10 ⁻¹⁴ m/s	83% Reduction
USACOE C48	Water Permeability	NA	0 Leakage @ 30.5 m Head Pressure 0 Leakage @ 100 ft Head Pressure	
DIN 1048	Water Permeability	98.4 mm @ 0.33 hrs 3.9 in @ 0.33 hrs	5.5 mm @ 72 hrs 0.22 in @ 72 hrs	94% Reduction
ASTM C666	Mass Loss @ 300 Freeze/Thaw Cycles	4.8%	0.7%	85% Reduction

*Note - All control samples were moisture cured.

March 2013

For more information visit : www.giltedge.co.nz



Gilt Edge Industries
CHC: 03 379 7067
AKL: 09 443 7067
PH: 0800 445833
Email: help@giltedge.co.nz

Technical & Sales Assistance
Email: sales@giltedge.co.nz
www.giltedge.co.nz

Manufactured by Oxtex Australia



THE NAME SAYS IT ALL

X300 REPELLER

Technical Data Sheet

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IN SURFACE PROTECTION FOR CONCRETE GIVING LIQUID AND STAIN PROTECTION

Description & Uses

X300 Repeller™ is an invisible, breathable low VOC surface treatment for concrete. Penetrates and chemically bonds, to the pre-treatment of X200 Densi Proof or X220 Moisture Fix, providing water repellence and oil resistance. Dries to a clear invisible no build, breathable finish.

Features and Benefits

- Repels water and resists oils
- Improves surface slip ratings
- Preserves original appearance- no glossy build up
- Enhances traction quality
- More stain resistant surface
- Easier snow/ice removal
- Retards/Eliminates efflorescence
- Highly resistant to alkali attack and rain erosion
- Suitable for any concrete or masonry surface
- Improves Fungus / Mildew Resistance
- UV Resistant
- User Friendly
- Odourless
- Non-Flammable
- Environmentally Friendly
- Will not darken or yellow

Physical and Chemical Properties

Appearance:	Low viscosity transparent liquid.
Odour:	Almost none.
pH:	Ca. 11.4
Initial Boiling Point / Boiling Range:	> 100°C @ 760 mm Hg.
Flash-point:	Not applicable.
Flammability (solid, gas):	Not applicable.
Flammability or Explosive Limits:	Not applicable.
Relative Density:	Ca. 1.09 @ 20°C.
Solubility:	Fully miscible in water.
Auto-ignition Temperature:	Product is not self-igniting.
Viscosity:	Low.
Volatile Organic Compounds (VOC) Content:	0.0 % w/w.

Recommended Substrate Conditions & Preparation

Freshly Placed Concrete:	5 m ² per litre.
Existing Concrete:	5 m ² per litre

(Test a small area to establish suitable spread rate).

Important Notes:

1. Wax, paint, curing compounds or a burnished surface restricting access to concrete's interior must be chemically or mechanically removed for **Oxtek X300 Repeller™** to penetrate the surface and work properly.
2. Areas of high porosity have a faster penetration rate. These areas appear to drop in immediately after spraying and will require additional product. If the product surface dries it will repel itself, be quick. We recommend some small tests to establish actual spread rate.
3. Do not apply on frozen substrate or when temperature is below 3°C and getting colder or above 34°C.
4. Do NOT apply if rain is forecast within 3 hours.
5. Before applying any paint, adhesives or any other coatings, wait 24 hours after application with **Oxtek X300 Repeller™** and pressure wash or scrub and clean.
6. **Oxtek X300 Repeller™** may etch glass 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 use of a painters mask during application. Refer to MSDS available from

www.giltedge.co.nz



THE NAME SAYS IT ALL

X300 REPELLER

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- **To be used in conjunction with either X220 Moisture Fix or X200 Densi-Proof on concrete**
- Protect areas that are not intended for coverage as product will damage them (i.e glass, tiles & aluminium).
- Remove all dust, dirt, stains, glues and previous coatings.
- Test area and material for suitability.
- Apply X300 Repeller with a soft broom, or a non-atomising pump sprayer.
- Apply evenly at **5m² per litre**.
- Do not allow to puddle dry otherwise a white precipitate may be left that will be difficult to remove.
- Allow 24 hours to dry thoroughly

Additional Data and Precautions

Available in 5, 15, 200 and 1000 Litre Containers

1. Any coatings that may restrict access to the concrete's interior must be chemically or mechanically removed for X300 Repeller to penetrate. Powerwash, scrub or abrade concrete previously treated with X200 or X220 to remove purged lime or calcium.
2. Protect areas not intended for coverage.
3. Do not apply on frozen substrate. Only apply if temperature is 3°C and rising.
4. X300 Repeller's spray mist is not hazardous to breathe. However, we do recommend the use of a face mask during application. Refer to MSDS.
5. Do not apply if rain is expected within the next 3 hours
6. Excellent for sandstone.
7. Do not apply in full sun exposure or to hot surfaces exceeding 34°C
8. Incidental skin contact should not be hazardous, however ingestion or eye contact is to be avoided.
9. For more information read Material Safety Data Sheet available at **www.giltedge.co.nz**

Projects

- Museum of Contemporary Art Sydney
- Royal Melbourne Show Grounds M1 Pavilion, Centenary Pavilion
- Aquatic Centres - Gisbourne, Nunawading, Ringwood, Canberra
- Back of House IGA, Coles, Woolworths.
- Dan Murphys
- Multi National Family Restaurant freezer and coolroom system



Gilt Edge Industries
 CHC: 03 379 7067
 AKL: 09 443 7067
 PH: 0800 445833
 Email: help@giltedge.co.nz

Technical & Sales Assistance
 Email: sales@giltedge.co.nz
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THE NAME SAYS IT ALL

X310 REPELLER



Technical Data Sheet

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PROTECTION FOR CONCRETE PROVIDING SURFACE STAIN RESISTANCE & PROVEN SteriTouch® ANTIMICROBOAL PROTECTION

Description & Uses

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 as part of our multi-product system.

Features and Benefits

- Repels water, resists oils and body fluids
- Improves surface slip ratings
- Preserves original appearance
- Enhances traction quality
- More stain resistant surface
- Easier snow/ice removal
- Retards/Eliminates efflorescence
- Highly resistant to alkali, acid and effluent attack
- Suitable for any concrete or masonry surface
- Improves Fungus / Mildew Resistance
- UV Resistant
- User Friendly
- Odourless
- Non-Flammable
- Environmentally Friendly
- Will not darken or yellow

Physical and Chemical Properties

Appearance:	Low viscosity transparent liquid.
Odour:	Almost none.
pH:	Ca. 11.4
Initial Boiling Point / Boiling Range:	> 100°C @ 760 mm Hg.
Flash-point:	Not applicable.
Flammability (solid, gas):	Not applicable.
Flammability or Explosive Limits:	Not applicable.
Relative Density:	Ca. 1.09 @ 20°C.
Solubility:	Fully miscible in water.
Auto-ignition Temperature:	Product is not self-igniting.
Viscosity:	Low.
Volatile Organic Compounds (VOC) Content:	0.0 % w/w.

Recommended Substrate Conditions & Preparation

Freshly Placed Concrete: 5 m² per litre.
Existing Concrete: 5 m² per litre
We recommend some small on the floor tests to establish ultimate spread rate.

Important Notes:

1. Wax, paint, curing compounds or a burnished surface restricting access to concrete's interior must be chemically or mechanically removed for **Oxtek X310 Repeller SteriTouch™** to penetrate and work properly.
2. Areas of high porosity have a faster penetration rate. These areas appear to drop in immediately after spraying and will require additional product. If the product surface dries it will repel itself, be quick.
3. Do not apply on frozen substrate or when temperature is below 3°C and getting colder or above 34°C.
4. Do NOT apply if rain is forecast within 3 hours.
5. Before applying any paint, adhesives or any other coatings, wait 24 hours after application with **Oxtek X310 Repeller SteriTouch™** and pressure wash or scrub and clean.
6. **Oxtek X310 Repeller SteriTouch™** may etch glass 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 use of a painters mask during application. Refer to MSDS available from

www.giltedge.co.nz



X310 REPELLER



Technical Data Sheet

Application Guide

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To be used in conjunction with a pre application of either X220 Moisture Fix, X200 Densi-Proof or X260 Medi-Vet. (See below - Utilisation as part of a multi product system.)

- Protect areas that are not intended for coverage as product will damage them (i.e glass, tiles & aluminium)
- Remove all dust, dirt, stains, glues and previous coatings.
- Test area for suitability and application rate.
- Apply X310 Repeller SteriTouch with a soft broom, or a non-atomising pump sprayer.
- Apply evenly at **5m² per litre**.
- Do not allow to puddle dry otherwise a white precipitate may be left that will be difficult to remove.
- Allow 24 hours to dry thoroughly.

Additional Data and Precautions

Available in 5, 15, 200 and 1000 Litre Containers

1. Any coatings that may restrict access to the concrete's interior must be chemically or mechanically removed for **Oxtek X310 Repeller SteriTouch™** to penetrate surface. Sanding is not required but a clean surface is essential for a top-up maintenance application. Power wash, scrub or abrade concrete previously treated with X200, X220 or medi-vet to remove purged contaminants, lime or calcium.
2. Protect areas not intended for coverage.
3. Do not apply on frozen substrate. Only apply if temperature is 3°C and rising.
4. X310 Repeller SteriTouch's spray mist is not hazardous to breathe. However, we do recommend the use of a face mask during application. Refer to MSDS.
5. Do not apply if rain is expected within the next 3 hours
6. Do not apply in full sun exposure or to hot surfaces exceeding 34°C
7. Incidental skin contact should not be hazardous, however ingestion or eye contact is to be avoided.
8. For more information read Material Safety Data Sheet available at www.giltedge.co.nz

Utilisation as Part of a Multi Product System

- To be used in conjunction with a pre application of either **X220 Moisture Fix, X200 Densi-Proof or X260 Medi-Vet**. This pre-application will fill the porosity of the concrete leaving the surface only to be treated with X310 Repeller SteriTouch.
- Also designed for use as a two part system where either **X220 Moisture Fix or X260 Medi-Vet Antimicrobial** is applied to decontaminate an older slab, then apply **Oxtek X310 Repeller SteriTouch™** to seal off the top surface if required.
- On projects where **X263 Medi-Vet Repeller or Oxtek X310 Repeller SteriTouch™** have been in use for some time and the concrete is wearing and repellency needs restoring. A simple clean and touch up of the worn areas with **Oxtek X310 Repeller SteriTouch™** will restore the floor. Contact your rep for specification advice.



Gilt Edge Industries
CHC: 03 379 7067
AKL: 09 443 7067
PH: 0800 445833
Email: help@giltedge.co.nz

Technical & Sales Assistance
Email: sales@giltedge.co.nz
www.giltedge.co.nz

Manufactured by Oxtek Australia



THE NAME SAYS IT ALL

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SteriTouch is an established brand in antimicrobial technology, based in the UK. The anti microbial performance of **Oxtek X310 Repeller SteriTouch™** 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

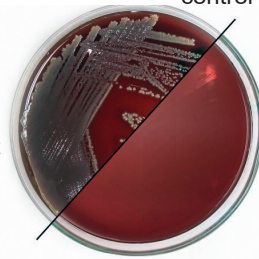
the combination of **Oxtek X310 Repeller SteriTouch™** creates a permanent barrier against the growth of bacteria, biofilm and moulds.

SteriTouch is safe. SteriTouch is an additive based on ionic silver. We do not use nano-silver, triclosan or other organic antimicrobial additives which have health and environmental concerns. The additives we use are non-leaching and non-sensitising.

SteriTouch gives continuous protection. Ionic silver based additives will not lose efficacy due to leaching or migration, they are evenly dispersed and embedded through out **Oxtek X310 Repeller SteriTouch™** even scratches and abrasion do not effect the antimicrobial performance. Cleaning chemicals such as chlorine bleach, disinfectants, alcohol and even harsh industrial products like MEK (methyl ethol keytone) will no diminish the antimicrobial properties of **Oxtek X310 Repeller SteriTouch.™**

Independent Antimicrobial Test Report

Evaluation of the antimicrobial performance of samples containing antimicrobial additives. All testing is conducted by an independent laboratory using the ISO 22196 / JIS Z 2801:2000 test method, briefly summarised as follows; Each test sample is inoculated with a suspension of the test organism. The inoculation is held in contact with the test sample using a sterile polyethylene film. All test samples are inoculated in triplicate, with an additional



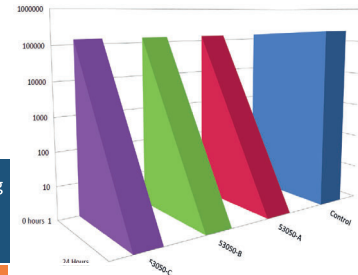
three replicates of the control. The bacterial population on three control replicates is evaluated immediately following inoculation.

This is assumed to be the initial population on all test samples (i.e. the population at zero hours). The remaining samples are incubated for the test period (24 hours) at 35°C, at which time the bacterial population is evaluated.

MRSA (Methaicillin Resistant Staphylococcus aureus)

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 polyethelene film	140000	220000	N/A
53050-A	X260 Medi-Vet with ST1156	140000	<10	>99.99991% Reduction
53050-B	X260 Medi-Vet with ST1156	140000	<10	>99.99991% Reduction
53050-C	X260 Medi-Vet with ST1156	140000	<10	>99.99991% Reduction

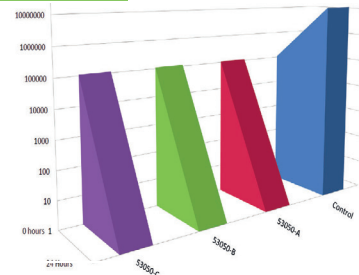


Notes: CFU = Colony Forming Units
The theoretical limit of detection is 10 CFU. If no bacteria are recovered the result is reported as "10 CFU".

Escherichai 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 polyethelene film	110000	120000000	N/A
53050-A	X260 Medi-Vet with ST1156	110000	<10	>99.99991% Reduction
53050-B	X260 Medi-Vet with ST1156	110000	<10	>99.99991% Reduction
53050-C	X260 Medi-Vet with ST1156	110000	<10	>99.99991% Reduction



For more information visit: www.protectcretenz.co.nz or www.giltedge.co.nz



PROTECT CRETE NZ Ltd
PO Box 10080, Rotorua Mail Centre
Rotorua 3046
Ph: +64 9 441 9003
Email: sales@protectcretenz.co.nz



Gilt Edge Industries
CHC: 03 379 7067
AKL: 09 443 7067
PH: 0800 445833
Email: help@giltedge.co.nz

Technical & Sales Assistance
Email: sales@giltedge.co.nz
www.giltedge.co.nz

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THE NAME SAYS IT ALL

X550 CARPARK WAREHOUSE™ Data Sheet

Technical

Data Sheet



CARPARK & WAREHOUSE FLOOR PROTECTION

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Description & Uses

X550 CARPARK Warehouse is a proprietary silicate silicate water based formulation applied to new and existing concrete giving excellent cure regime, reduced dusting, surface hardener and stain resistance from oils and is compatible with line marking acrylic or solvent based paints. Achieves the cure requirements of **NZS 3109,1997 & NZS 3101:Part 1:2006**.

Features and Benefits

- Resists oil staining
- Reduced tyre squeal
- Hardens surface
- Reduces dusts
- Densifies
- Clear invisible finish
- Environmentally friendly
- Low odour - 0.0g/L VOC
- Long lasting
- Lasting Stain protection
- Retards efflorescence
- Highly resistant to alkali attack
- Improves Fungus / Mildew Resistance
- Enhances Traction Quality
- Easy and safe to apply
- UV Resistant
- Non-Flammable
- Will not darken or yellow
- Low cost
- Easier cleaning
- Resists Freeze-Thaw Damage
- Equal to water pond cure
- Easy maintenance
- Saves time & cost

Recommended Substrate Conditions & Preparation

Important Notes:

1. Wax, paint, curing compounds or a highly burnished surface restricting access to concrete's interior must be chemically or mechanically removed for X550 Carpark Warehouse to penetrate and work properly.
2. Areas of high porosity have a faster penetration rate. These areas appear to drop in immediately after spraying and will require additional product. If the product surface dries it will repel itself, maintain a wet edge during application if possible.
3. Do not apply on frozen substrate or when temperature is below 3°C when getting colder or in full sun exposure or if surface exceeds 34°C
4. Do NOT apply if rain is forecast within 3 hours.
5. Before applying any paint, adhesives or any other coatings, wait 24 hours after application with X550 Carpark Warehouse. Clean if necessary. Follow coating manufacturers recommendations.
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. We recommend the use of a face mask during application. Refer to MSDS available from www.giltedge.co.nz

Application Procedure

Application Rates

Existing and Freshly Placed Concrete: 5m² per litre
Burnished Concrete: May vary depending on the level of burnishing. Refer to technical memo 17.06.20.

Available in 5, 15, 200 and 1000 litre containers.

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

AS CURE: Apply as soon as possible after the concrete's initial set for optimum cure benefit.

EXISTING: Test for adequate porosity by spraying water onto the concrete surface. If the water does not penetrate into the concrete, mechanical abrading may be required.

NEW: Test small areas with product before starting full application. Product will sit on the surface for approx 15-20 minutes and be fully absorbed within 1 hour.

1. Use a pump pack garden type sprayer or a low pressure battery pack sprayer
2. Walls, ramps and slopes should be applied side to side, from the bottom up. Begin applying at the lowest level elevation.
3. For existing, soiled, used and old concrete, a two component Protect Crete system can be used. Call **Gilt Edge** for advice and specification.



X550 CARPARK WAREHOUSE™ Data Sheet

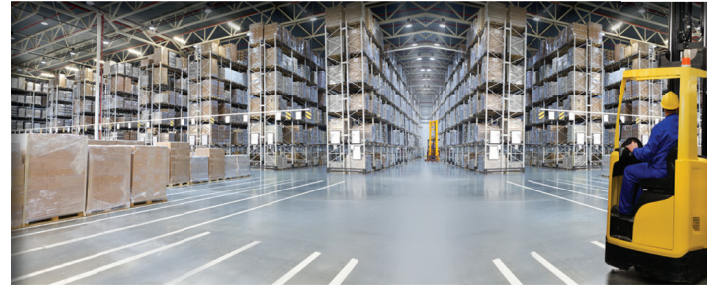
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Precautions

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1. Like wet concrete and some high alkali cleaning products, X550 Carpark Warehouse will etch glass/tiles and will discolour brushed aluminium. Mask or clean off with a wet cloth as you go.
2. DO NOT allow product to dry on any surface not intended for application. Ensure that you don't mark the surface of new concrete with either your feet or pressure for the spray.
3. X550 is a penetrative product which sets as CSH gel in the capillaries of the concrete. In new concrete pours particularly, minerals may purge to the surface and will appear as a white powdery substance. This can be scrubbed off or will wear away.
4. Do not allow X550 Carpark Warehouse to dry in puddles on the concrete surface. One hour after application remove any puddles before they dry on the surface with a soft bristle broom, squeegee or blower.
5. Always test suitability and compatibility with your next process.
6. If a carpark building is suffering from rain water penetration through the slabs and alkali damage to cars parked below, do not rely on X550 to waterproof. In these situations use X230 Densi-Proof Repeller. Call a Gilt Edge consultant for advice.

Call today **0800 445833**



Test		Control Sample	X550 Carpark Sample	Results Comparison
Designation	Property	All concrete controls are water cured		
AS 1012.9 ASTM C39	Compressive Strength	28.9MPa 4,191 psi	31.0 MPa 4,496 psi	7% Increase
AS 1012.8 ASTM C78	Flexural Strength	2.52 MPa 365 psi	2.89 MPa 419 psi	15% Increase
Chaplin AbraderA	abrasion Loss	2.47 mm 0.10 in	1.46 mm 0.06 in	41% Reduction
Surface Dusting		2.57 g/0.25 m ²	1.78 g/0.25 m ²	31% Reduction
ASTM C1202	Rapid Chloride Penetration	597 / 543 / 10.097 Coulombs	148 / 136 / 6.582 Coulombs	35% to 75% Reduction
HKHA B2.9	Sorptivity	0.164 mm/(min) ^{1/2}	0.010 mm/(min) ^{1/2}	94% Reduction



For more information visit: www.giltedge.co.nz



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