

X263 MEDI-VET REPELLER™

MOISTURE CONTROL & ANTIMICROBIAL SURFACE PROTECTION



TDS 263 – V9 JAN 2025

Description

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

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

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

Typical Applications

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

Features and Benefits

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

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

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Physical Properties

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

Recommended Substrate Conditions & Preparation

Product Coverage Rates:	Freshly Placed Concrete:	Minimum 5m ² per litre.
	Existing Concrete:	Minimum 5m ² per litre.

Important Notes:

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

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Application Guidelines

Note:

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

On Already-Set Concrete:

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

At Time of Pour:

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

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

Recommended minimum coverage rate is 5m² per litre.

Application:

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

Note:

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

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

Excess Product Removal:

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

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

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

Additional Note: Application to vertical substrates:

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

Caution: For recently placed and unused concrete only.

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

Overcoat Timelines:

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

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

Subsequent Coverings and Coatings:

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

Hot and Cold Temperatures:

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

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Additional Advice and Precautions:

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

Maintenance

Spillages:

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

Cleaning:

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

Repairs:

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

Storage & Shelf Life

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

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Warranty Request & Registration

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

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

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

New Zealand Contact:

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

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

Proven Anti-Microbial Performance Testing

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

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

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

Escherichia coli

Tested at 35°C

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

MRSA (Methicillin Resistant Staphylococcus aureus)

Tested at 35°C

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

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Memberships & Certifications

Oxtek Solutions are actively committed towards best practice and environmentally friendly systems and procedures within the concrete and flooring industries.

We are proud to support this through our memberships and affiliations with the following industry bodies.



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