

X260 MEDI-VET™

MOISTURE CONTROL WITH ANTIMICROBIAL FORMULA



TDS 260 – V9 JAN 2025

Description

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

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

Typical Applications

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

Features and Benefits

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

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

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

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

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

Recommended Substrate Conditions & Preparation

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

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

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

Application Guidelines

Note:

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

On Already-Set Concrete:

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

At Time of Pour:

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

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

Application:

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

Note:

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

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

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Excess Product Removal:

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

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

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

Overcoat Timelines:

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

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

Subsequent Coverings and Coatings:

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

Hot and Cold Temperatures:

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

Additional Advice and Precautions:

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

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

Storage & Shelf Life

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

Warranty Request & Registration

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

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

Australia, UK, & Asia Contact 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.

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

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Proven Anti-Microbial Performance Testing

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

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

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

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

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

Escherichia coli

Tested at 35°C

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

MRSA (Methicillin Resistant Staphylococcus aureus)

Tested at 35°C

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

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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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