



X260 MEDI-VET[®]

Technical
Data
Sheet

Issued: 21st August 2018
Document #: TDS 115 V2P
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PERMANENT CONCRETE MOISTURE CONTROL & BACTERIA PROTECTION

POLYGIENE BIOMASTER[®]

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, **BIOMASTER[®]** has independent antimicrobial testing showing complete protection against *E.coli* and *Methicillin Resistant Staphylococcus aureus*. **X260 Medi-Vet[®]** system included in AS1884-2021. Provides an effective moisture barrier for impervious floor coverings and coatings.

Features and Benefits

- Cures, Hardens, Densifies & Permanently Waterproofs
- 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.
- Retards efflorescence.
- Can be used on vertical or horizontal substrates.
- >1gram per litre VOC, environmentally friendly, user safe.
- Compatibility with most flooring 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.	Upper/Lower Flammability or Explosive Limits:	Not applicable.
Odour:	Almost none.	Solubility:	Fully miscible in water.
pH:	Ca. 11.4	Auto-ignition Temperature:	Product is not self-igniting.
Initial Boiling Point/ Boiling Range:	> 100°C @ 760 mm Hg.	Viscosity:	Low.
Flash-point:	Not applicable.	Volatile Organic Compounds (VOC) Content:	0.0 % w/w.
Flammability (solid, gas):	Not applicable.		
Relative Density:	Ca. 1.10 @ 20°C.		

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, 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.

7. We recommend the use of a face mask during application. Refer to MSDS available from www.oxtek.com.au



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Application Guide

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

On Already-Set Concrete:

Apply **X260 Medi-Vet[®]** using a low-pressure non-atomising, spray apparatus such as a pump-tank or battery pack sprayer. Hold 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. If product gels on the surface remove with a squeegee.

At Time of Pour:

Apply with a low-pressure non-atomising, 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 placement of **X260 Medi-Vet[®]** application.

Caution: Like many construction materials including fresh concrete **X260 Medi-Vet[®]** contacting glass should be flushed with water and not be allowed to dry, since glass/tiles will etch. **X260 Medi-Vet[®]** will dull the shine on shiny aluminium, however, aluminium's integrity will be otherwise unaffected.

Additional Data and Precautions

Available in 15, 200 and 1000 litre containers.

1. Any coatings or burnished surface that may restrict penetration access to the concrete's interior must be chemically or mechanically removed for **X260 Medi-Vet[®]** to penetrate.
2. Protect areas not intended for coverage.
3. **X260 Medi-Vet[®]** may etch glass/tiles or dull shiny aluminium and can be difficult to remove from other surfaces once it dries.
4. Do not apply on frozen substrate. Only apply if temperature is 3°C and rising. Call for advice if applying during colder periods.
5. As good safety practice we do recommend the use of a face mask during application. Refer to MSDS.
6. Warranties are not available on concrete older than 15 years, call for advice.
7. For more information read Material Safety Data Sheet available at www.oxtek.com.au

Warranty Registration

Call your Oxtek Solutions Office to arrange personal assistance and advice anywhere in Australia or New Zealand. We have technical expertise and experience to help and consult on your next project or help your existing project maintain time and budget.

An issued warranty is project specific and will require us to provide consultation and a registered specification number. Call today. **+61 3 9798 7534** for advice today.

reception@oxtek.com.au

Certifications

Contact Oxtek technical department for product performance test documentation





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POLYGIENE BIOMASTER[®]

BIOMASTER 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 **BIOMASTER X260 Medi-Vet[®]** creates a permanent barrier against the growth of bacteria, biofilm and moulds.

BIOMASTER is safe. SteriTouch is an additive based on

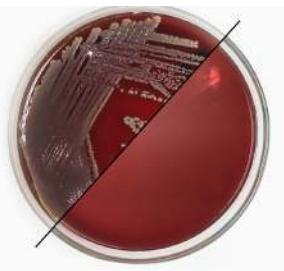
ionic silver. We do not use nano-silver, triclosan or other organic antimicrobial additives which have health and environmental concerns. The additives we use are non-leaching and non-sensitising.

BIOMASTER 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.

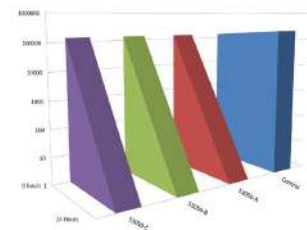


All test samples are inoculated in triplicate, with an additional three replicates of the control. The bacterial population on three control replicates is evaluated immediately following inoculation. This is assumed to be the initial population on all test samples (i.e. the population at zero hours).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

MRSA (Methicillin Resistant Staphylococcus aureus)

Tested at 35°C

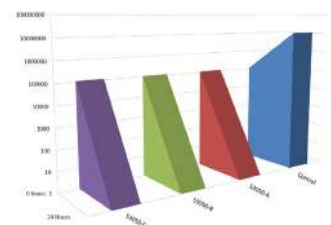
Sample		Number of live organisms (Colony Forming Units)		% reduction of Colony Forming Units, expressed as comparison with control	
		0 hours	24 Hours		
Control		140000	220000	N/A	
53050-A	X260 MediVet	140000	<10	>99.995% Reduction	EXCELLENT
53050-B	X260 MediVet	140000	<10	>99.995% Reduction	EXCELLENT
53050-C	X260 MediVet	140000	<10	>99.995% Reduction	EXCELLENT



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		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



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".