



X310 REPELLER



Technical Data Sheet

Issued: 20th July 2020
Document #: 117 V1C
Page 1 of 3



PROTECTION FOR CONCRETE PROVIDING SURFACE STAIN RESISTANCE & PROVEN SteriTouch ANTIMICROBIAL 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 and resists oils
- Retains surface slip ratings
- Preserves original appearance
- Extra time to remove spillages that may stain
- Reduces Efflorescence & Dust
- Highly resistant to alkali 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.	Explosive Limits:	Not applicable.
Odour:	Almost none.	Relative Density:	Ca. 1.09 @ 20°C.
pH:	Ca. 11.4	Solubility:	Fully miscible in water.
Initial Boiling Point/ Boiling Range:	> 100°C @ 760 mm Hg.	Auto-ignition Temperature:	Product is not self-igniting.
Flash-point:	Not applicable.	Viscosity:	Low.
Flammability (solid, gas):	Not applicable.	Volatile Organic Compounds (VOC) Content;	0.0 % w/w.
Flammability or			

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.

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 sand 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 face mask during application. Refer to MSDS available from



X310 REPELLER



Technical Data Sheet

Application Guide

Issued: 20th July 2020
Document #: 117 V1C
Page 2 of 3

Can 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
- Apply X310 Repeller SteriTouch with a soft broom, a non-atomising pump sprayer or battery pack 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 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.
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.oxtek.com**

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.





X310 REPELLER



Technical Data Sheet

Issued: 20th July 2020
Document #: 117 V1C
Page 3 of 3



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.

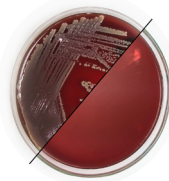
SteriTouch is safe. SteriTouch is an additive based on ionic silver. We do not use nano-silver, triclosan or other organic antimicrobial additives which have health and environmental concerns. The additives we use are non-leaching and non-sensitising.

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

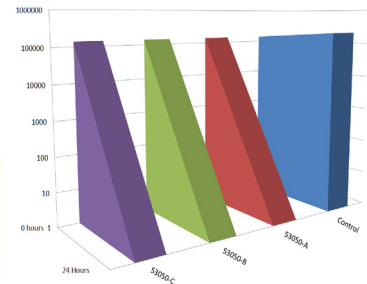


are inoculated in triplicate, with an additional three replicates of the control. The bacterial population on three control replicates is evaluated immediately following inoculation. This is assumed to be the initial population on all test samples (i.e. the population at zero hours. The remaining samples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

MRSA (Methicillin Resistant Staphylococcus aureus)

Tested at 35°C

Sample		Number of live organisms (Colony Forming Units)		% reduction of Colony Forming Units, expressed	
		0 hours	24 Hours		
Control	Untreated polyethylene film	140000	220000	N/A	
53050-A	X-20 Coolroom with 1% ST1156	140000	<10	>99.995% Reduction	EXCELLENT
53050-B	X-20 Coolroom with 1% ST1156	140000	<10	>99.995% Reduction	EXCELLENT
53050-C	X-20 Coolroom with 1% ST1156	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	Untreated polyethylene film	110000	12000000	N/A	
53050-A	X260 MediVet with 1% ST1156	110000	<10	>99.99991% Reduction	EXCELLENT
53050-B	X260 MediVet with 1% ST1156	110000	<10	>99.99991% Reduction	EXCELLENT
53050-C	X260 MediVet with 1% ST1156	110000	<10	>99.99991% Reduction	EXCELLENT

