



Protect Crete X230 Densi-Proof Repeller™

BPIR Declaration: Version: PCX230 BPIR V1 27112023

Designated building product: Class 1

Declaration:

Gilt Edge Industries has provided this declaration to satisfy the provisions of Schedule 1(d) of the Building (Building Product Information Requirements) Regulations 2022.

Product Name	Protect Crete X230 Densi-Proof Repeller™
Product Line	Colloidal Silicate Treatments for Concrete
Product Identifier	PCX230

Description:

X230 Densi-Proof Repeller™ a single pack one application spray on system that deeply penetrates new or existing concrete, provides curing, permanent waterproofing, and surface protection. The application of X230 Densi-Proof 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 X230 Densi-Proof 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, compatible with line marking paint.

X230 Densi-Proof Repeller™ provides enhanced surface protection and ease of cleaning against acids, oils, water-based stains, chemicals, body fluids, wine, grease, and others.

Scope of use:

1. Effective curing regime for freshly placed concrete.
2. Surface Hardner, Densifier and Dust Proofing treatment for concrete.
3. Internal Moisture barrier for concrete prior to application of topical coatings or floor coverings.
4. Durability and waterproofing treatments for concrete structures.
5. Concrete substrates that require stain resistance.

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

**Conditions of use:**

X230 Densi-Proof Repeller™ must be applied as per the most recently published Technical Data Sheet (TDS) where well documented procedures in both surface preparation and application are located.

Coverage Rate: 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 X230 Densi-Proof 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 X230 Densi-Proof Repeller™ 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. Do NOT apply if rain is forecast within 24 hours.
5. When applying line marking paint on X230 Densi-Proof Repeller™ treated concrete always follow the paint manufacturers surface preparation requirements (see Overcoat Timelines).
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. Concrete being treated must be fit for purpose for the intended function of X230 Densi-Proof™ Repeller Structural cracks, active cracks, and faulty control and cold joints will not be repaired with a X230 Densi-Proof Repeller™ application.
8. We recommend the wearing of eye protection, gloves, and a painter's face mask during application.

Storage and Handling procedures: please refer to the most recently published MSDS.

Relevant building code clauses:**Contributions to compliance:**

1. Building Regulations 1992 - Clause B1 - Structure - Clause B1.3.3 Section e) water and other liquids.
2. Building Regulations 1992 - Clause B2-Durability. X230 Densi-Proof Repeller™, with only normal maintenance, will continue to satisfy the performance requirements of Building Regulations for 15 years.
3. Building Regulations 1992 - Clause E2- External Moisture Clause E 2.3.3. and Clause E 2.3.4.
4. X230 Densi-Proof Repeller™ when applied as per the guidelines documented with the Technical Data Sheet will assist in preventing the ingress of water, other liquids and



contaminants into the concrete matrix for the intended life of structure (see link to Colloidal Silicate - Summary of Performance Test Results).

5. X230 Densi-Proof Repeller™ conforms to the moisture suppressant requirements as per NZAS1884-2013.
6. X230 Densi-Proof Repeller™ -achieves the curing of concrete requirements of NZS 3109:1997 & NZS 3101:part 1 2006.

Supporting documentation:

The following additional documentation supports the above statements:

Title (Type)	Version	URL
X230 Densi-Proof Repeller™ Technical Data Sheet	TDS 230 – V8 1-APR-23	https://giltedge.co.nz/download/tds-pcx230-densi-proof-repeller
X230 Densi-Proof Repeller™ Material Safety Data Sheet	MSDS July 2021	https://giltedge.co.nz/download/msds-pcx230-densi-proof-repeller
Protect Crete Colloidal Silicate Technology – Product Performance	Nov 2023	https://giltedge.co.nz/download/product-performance-document?wpdmdl=11955&refresh=65760872b3b4f1702234226
X230 Densi-Proof Repeller™ VOC Certificate	12-09-2023	https://giltedge.co.nz/download/voc-pcx230-densi-proof-repeller
X230 Densi-Proof Repeller™ Pre-Warranty and Specification	Version 1: 14/09/2021	https://giltedge.co.nz/download/pre-warranty-specification
Protect Crete HACCP Certificate	PE-675-PC-1-06	https://giltedge.co.nz/download/protect-crete-haccp-certificate

For further information supporting X230 Densi-Proof Repeller™ claims refer to the manufacturer’s website. www.oxtek.com.au

Contact details:

Manufacturer location:	Overseas
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Legal and trading name of manufacturer:	Oxtek Solutions Pty-Ltd
Legal and trading name of importer:	Gilt Edge Industries
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Importer NZBN:	9429031908689
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Importer phone number:	0800445833

Warnings and Bans

Is the building product/building product line subject to warning or ban under s26 of the Building Act 2004?

NO

Appendix