



Protect Crete X280 Densi-Proof Reo Protect™

BPIR Declaration: Version: PCX280 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 X280 Densi-Proof Reo Protect™
Product Line	Colloidal Silicate Treatments for Concrete
Product Identifier	PCX280

Description:

X280 Densi-Proof Reo Protect™ a single pack one application spray on system that deeply penetrates new or existing concrete, provides curing, permanent waterproofing, and protection.

X280 Densi-Proof Reo Protect™ has been specifically formulated to prevents conditions that create and/or promote corrosion activity, significantly retarding rust producing reactions of the embedded steel reinforcement.

Adopting the use of X280 Densi-Proof Reo Protect™ at time of the concrete pour as an effective curing regime (equivalent to that of water ponding), will significantly reduce the incidence of dry shrinkage cracking, providing a hardened, denser and dust proof concrete, compatible with subsequent flooring or coating applications.

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 treatment for concrete structures.

Examples for areas of use are as follows: bridges, wharfs, marine walls, culverts, tunnels, water infrastructure, industrial, mining, and concrete structures exposed to a marine environment.

**Conditions of use:**

X280 Densi-Proof Reo Protect™ 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 X280 Densi-Proof Reo Protect™ 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 X280 Densi-Proof Reo Protect™ 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.
3. 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.
4. Do NOT apply if rain is forecast within 3 hours.
5. Before applying any paint, adhesives, or any other coatings, wait a minimum of 24 hours after application with X280 Densi-Proof Reo Protect™ (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).
6. Concrete being treated must be fit for purpose for the intended function of X280 Densi-Proof Reo Protect™. Structural cracks, active cracks, and faulty control and cold joints will not be repaired with a X280 Densi-Proof Reo Protect™ application.
7. X280 Densi-Proof Reo Protect™ 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.
8. Concrete being treated must be fit for purpose for the intended function of X280 Densi-Proof Reo Protect™. Structural cracks, active cracks, and faulty control and cold joints will not be repaired with a X280 Densi-Proof Reo Protect™ application.
9. 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. X280 Densi-Proof Reo Protect™, 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. X280 Densi-Proof Reo Protect™ 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. X280 Densi-Proof Reo Protect™ conforms to the moisture suppressant requirements as per NZAS1884-2013.
6. X280 Densi-Proof Reo Protect™ -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
X280 Densi-Proof Reo Protect™ Technical Data Sheet	TDS 280 – V7 1-APR-23	https://giltedge.co.nz/download/tsd-pcx280-densi-proof-reo-protect
X280 Densi-Proof Reo Protect™ Material Safety Data Sheet	MSDS June 2021	https://giltedge.co.nz/download/voc-pcx280
Protect Crete Colloidal Silicate Technology – Product Performance	Nov 2023	https://giltedge.co.nz/download/product-performance-document?wpdmdl=11955&refresh=65760872b3b4f1702234226
X280 Densi-Proof Reo Protect™ VOC Certificate	12-09-2023	https://giltedge.co.nz/download/voc-pcx280
X280 Densi-Proof Reo Protect™ 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 X280 Densi-Proof Reo Protect™ claims refer to the manufacturer's website. www.oxtek.com.au

**Contact details:**

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Warnings and Bans

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

NO

Appendix