



Protect Crete X220 Moisture Fix®

BPIR Declaration - Version: PCX220 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 X220 Moisture Fix®
Product Line	Colloidal Silicate Treatments for Concrete
Product Identifier	PCX220

Description:

X220 Moisture Fix® a single pack one application spray on or pour and broom system that deeply penetrates new or existing concrete, provides curing, permanent waterproofing, and protection. X220 Moisture Fix® can be applied to existing concrete with a high moisture content.

The application of X220 Moisture Fix® 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 X220 Moisture Fix® 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.

Scope of use:

1. Effective curing regime for freshly placed concrete
2. Surface Hardener, 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.

Examples for areas of use are as follows: New or existing concrete substrates prior to application of topical coatings or coverings.



Conditions of Use:

X220 Moisture Fix® 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 Rates: Spray Application 5m² per Litre Pour & Spread - 4m² per Litre (Existing Concrete only)

Important Notes:

1. Wax, paint, curing compounds or a burnished surface restricting access to concrete's interior must be chemically or mechanically removed for X220 Moisture Fix® 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 X220 Moisture Fix® 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 a minimum of 24 hours after the application of X220 Moisture Fix® (see Overcoat Timelines). Pressure wash or abrade 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.
7. If treating an existing contaminated slab, subsequent applications of X220 Moisture Fix® may be required to purge or lock up foreign material before the concrete is suitable for coating or covering.
8. Concrete being treated must be fit for purpose for the intended function of X220 Moisture Fix®. Structural cracks, active cracks, and faulty control and cold joints will not be repaired with a X220 Moisture Fix® application.
9. X220 Moisture Fix™ 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.
10. We recommend the wearing of eye protection, gloves, and painter's face mask during application.

Storage and Handling procedure: 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. X220 Moisture Fix®, 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. X220 Moisture Fix® 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. X220 Moisture Fix® conforms to the moisture suppressant requirements as per NZAS1884-2013.
6. X220 Moisture Fix® -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
X220 Moisture Fix® Technical Data Sheet	TDS 220 – V7 1-APR-23	https://giltedge.co.nz/download/tds-pcx220-moisture-fix
X220 Moisture Fix® Material Safety Data Sheet	MSDS May 2021	https://giltedge.co.nz/download/msds-pcx220-moisture-fix
Protect Crete Colloidal Silicate Technology – Product Performance	Nov 2023	https://giltedge.co.nz/download/product-performance-document?wpdmdl=11955&refresh=65760872b3b4f1702234226
X220 Moisture Fix® VOC Certificate	12-09-2023	https://giltedge.co.nz/download/voc-pcx220-moisture-fix
X220 Moisture Fix® 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 X220 Moisture Fix® 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