

X-Pruf ElastoCem

High technology polymer modified elastomeric waterproofing membrane system for concrete and masonry surfaces.

Product Description

X-Pruf ElastoCem is a two component polymer modified waterproof membrane which is supplied in ready-mix kits. When mixed, an easily brush able coating is produced. It can simply be applied by a stiff brush, roller, or trowel to obtain the desired thickness.

Composition

X-Pruf ElastoCem consists of specially selected cements, graded hard wearing aggregates and additives supplied in powder form together with a liquid component of polymers providing exceptional adhesion, resiliency, flexibility, toughness and durability.

Advantages

- Meets SCAQMD Rule 1113 & LEED VOC Limits
- Able to take foot traffic when cured
- Can be applied to damp substrates
- Elastomeric able to bridge cracks
- No primer required
- Highly flexible coating

Uses

X-Pruf ElastoCem when fully cured, provides a seamless elastic waterproof membrane for use in roof areas, wet areas, pre-cast joints where a tough elastomeric water tight membrane is required.

Laboratory Test Data

Property	Typical Results
Nature	Compound A :liquid Compound B :powder
Specific gravity	1.65 ± 0.05 g/cm ³
Adhesion to substrate (ASTM D4541)	1 MPa
Tensile strength (ASTM C 307)	>1.2 MPa (174 psi)
Shear strength	>1.5 MPa (218 psi)
Elongation at break (ASTM D412)	>180%
Water penetration (BS EN 12390-8)	Nil
Crack bridging (ASTM 1305)	2mm

Standards Compliance

SCAQMD Rule 1113
LEED NC2009 IEQ 4.2

Application Properties

Pot life at 35C	40mins.
Setting time *	24 hrs
- Foot traffic	3 DAY
- Light vehicle	

* On clean dry concrete, with adequate airflow (ventilation) at 25C to 35C

Volatile Organic Content

VOC = <20 g/L

Color

Compound A: White
Compound B: Grey, white and custom colors is available
Mix : Grey, white and custom colors is available.

Theoretical Coverage

13 m² per pack applied at 1mm thick (2 coats of 500 microns thick)

Note: Coverage figures are theoretical and due to wastage factors and the variety nature of possible substrates, practical coverage will be reduced.

Packaging

30 kg Kits.
20kg powder & 10kg liquid

Yield

18 liters per kit.

Shelf Life

12 months when stored below 35C (95F) under shade in a dry environment.

Installation Guidelines

X-Pruf ElastoCem should be applied by experienced coating crews. NCC X-Calibur provides detailed method statements on all its products for use in various applications. These must be referred to prior to starting work. The information below is a summary intended for guidance only.

Surface Preparation

All surfaces which are to receive X-Pruf ElastoCem coating, must be free from oil, grease, wax, dirt or any other form of foreign matter which might affect adhesion. Spalled and deeply disintegrated concrete should be removed to sound concrete and repaired with the appropriate X-Roc products.

Mixing

The X-Pruf ElastoCem Liquid concentrate is poured from the plastic container into the mixing drum and mixed mechanically with a slow speed drill (350 to 450 rpm) fitted with a NCC X-Calibur Mixing Paddle (MR3). Add the powder component gradually to the liquid avoiding lump formation and mix for 4 to 5 minutes until a smooth consistent mix is achieved. Use the material within the recommended pot life.

Application

For best results damp the surface before coating with X-Pruf ElastoCem. Use a short, stiff bristle brush preferably 120 to 200 mm in width. Apply like a paint using one or two coats as required.

For trowel application, ensure that the substrate is leveled and repaired of any undulations or pot holes.

X-Pruf ElastoCem should be applied in 0.5mm coats as per the table below:

Application	No of coats
Wet areas	2
Swimming pools	2
Roofs	2
Pedestrian area	3
General re-surfacing	2

Clean Up

X-Pruf ElastoCem should be removed from tools and equipment immediately after use with clean water. Hardened material can only be removed mechanically.

Limitations

X-Pruf ElastoCem should not be applied if the air or substrate temperature is greater than 45C. This may result in different colour shades.

Health and Safety

This product is for industrial use only by trained operatives. It is potentially hazardous if not used correctly. Please refer to the Material Safety Data Sheet (MSDS) prior to the purchase and use of this product. The MSDS can be obtained via our website www.ncc.com.eg.

Authorized Technical Specialist

Please note that only NCC X-Calibur Authorized Technical Specialists ('ATSs) are permitted to change any of the information in this data sheet or to provide written recommendations concerning the use of this product. Visit www.ncc.com.eg for a full list of NCC X-Calibur ATSs.

Datasheet Validity

NCC X-Calibur makes modifications to its product datasheets on a continuous basis. Please check the datasheet update section on www.ncc.com.eg to ensure you have the latest version.

Warranties

NCC X-Calibur supplies products that comply with the properties shown on the current datasheets. In the unlikely event that products supplied are proved not to comply with these properties, then we will replace the non-compliant product or refund the purchase price. NCC X-Calibur does not warrant or guarantee the installation of the products as it does not have control over the installation or end use of the products. Any suspected defects must be reported to NCC X-Calibur in writing within five working days of being detected. NCC X-Calibur Construction Chemistry. **makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties express or implied.** NCC X-Calibur Construction Chemistry. shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.