

FORMCEAL TYPE-X

SINGLE COMPONENT POLYURETHANE WATERPROOFING MEMBRANE FOR EXPOSED ROOF SYSTEM

DATA SPECIFICATION SHEET

DESCRIPTION

Formceal Type-X is a single-component polyurethane liquid-applied waterproofing membrane designed for exposed applications requiring long-term weather resistance, durability, elasticity, and seamless waterproof protection. Engineered with advanced polyurethane technology, it forms a durable, flexible, and UV-resistant membrane that adheres strongly to a wide variety of concrete substrates.

Formceal Type-X is designed for ease of application and can be applied directly onto properly prepared substrates to achieve a seamless waterproofing layer with excellent waterproof integrity. It is applied directly from the pail using brush, roller, squeegee or airless spray. **Formceal Type-X** is ideal for use in roofs, terraces, balconies, decks and exposed concrete structures.

FEATURES

- Single component
- Easy and fast application to increase productivity and reduce installation time
- Seamless
- Excellent physical properties
- Resistant to permanent UV exposure
- Provides long-term waterproofing reliability with low maintenance system

PRODUCT SPECIFICATION

PACKING	: 25 kg / pail
APPEARANCE	: Grey
SOLID CONTENT (SS133)	: ≥80%
DRY FILM THICKNESS	: Approximately 1.5mm
RESISTANCE TO WATER PENETRATION (DIN 1048)	: 0 mm
SHORE A HARDNESS (ASTM D2240)	: ≥55
WATER VAPOUR TRANSMISSION (ASTM E96)	: 6.6 g/m ² /24 hrs
CRACK BRIDGING (ASTM C836/C836M)	: No cracks @ 2 mm width : No cracks after 10 cycles of stretching and closing to a width of 1 mm
TENSILE STRENGTH (ASTM D412)	: ≥2 N/mm ²
ELONGATION (ASTM D412)	: ≥300%
ADHESION TO SUBSTRATE (ASTM D4541)	: ≥1.3 N/mm ²
SET TO TOUCH (ASTM 1640)	: Touch dry within 6 hrs
HEAT RESISTANT (SS133)	: No sagging, slipping or blistering
WATER RESISTANT (SS133)	: No dispersion or blistering
FIRE RESISTANT (SS133)	: No combustion or rundown
QUV ACCELERATED WEATHERING (1000hrs) (ASTM G154)	: No cracking, chalking, blistering or peeling decay & delamination was observed

APPLICATION

SUBSTRATE PREPARATION

All surfaces to receive waterproofing membrane shall have a sound, smooth, dry and free from dust, laitance, loose matter, oil or other contaminants which may impair adhesion. Concrete should be cured 28 days and render for 7 days.

APPLICATION

PRIMING:

Apply **Formceal Type-X Primer** onto the entire prepared surface either by brush or roller. Spreading rates and drying/re-coating times are indicative only and depend on the type and condition of the substrate, temperature and humidity, etc.

APPLICATION OF FORMCEAL TYPE-X:

- Apply **Formceal Type-X** by brush, roller, squeegee or airless spray.
- Apply first coat of **Formceal Type-X** at a coverage of 1 kg/m². While still wet, embed a layer of **Fiberglass X** onto the **Formceal Type-X** first coat. Fiberglass mat shall be overlapped by a minimum of 50mm.
- Apply a second coat of **Formceal Type-X** at 1 kg/m².
- Apply subsequent coat perpendicular to the previous coat to achieve uniform coverage. Ensure that the entire fiberglass mat is fully embedded between coats.
- Allow membrane to cure for 24 hours before ponding test.

PONDING TEST

Ponding test can be carried out 24 hours after application of final coat.

STORAGE/SHELF LIFE

Do not store product exposed to sun or weather. When kept in cool, dry, protected area, sealed pails have a 24 months shelf life. Once opened, content may solidify within a few days.

HEALTH & SAFETY

Read the product label and Material Safety Data Sheet (SDS) before use. Users should acquaint themselves with all risk and safety phrases.

Place Product
Sample Here

Hitchins (FE) Marketing Pte Ltd
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Facsimile: (65) 6863 4240
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Revision A

All data given and statements and recommendations made herein are base upon our research and experience and are believed to be accurate. However, no guarantee of their accuracy is made or applied. This data specification supersedes all other issues.