

Elastoclad® PU(N)

HIGH PERFORMANCE MODIFIED POLYURETHANE LIQUID APPLIED WATERPROOFING MEMBRANE

DESCRIPTION

Elastoclad PU(N) is a high performance, elastomeric, one component, moisture curing hybrid polyurethane coating formulated for use in many situations. **Elastoclad PU(N)** provides a complete joint free waterproofing membrane, replacing the conventional 'hot melt' mastic asphalt and bituminous sheet membrane and felt systems.

Complies to EN1504 Part 9 and EN1504 Part 2.

- Principle 1 : Protection against Ingress (PI).
Method 1.3 - Surface coating.
Method 1.8 - Application of membranes.
- Principle 2 : Moisture Control (MC).
Method 2.3 - Surface coating.
- Principle 8 - Increasing Resistivity (IR).
Method 8.3 - Overlays or coatings.

USES & ADVANTAGES

Elastoclad PU(N) can be applied to the following surfaces:- Concrete, roofing felt, asbestos sheeting, tiles, galvanized and coated sheeting, slate, clay tiles, plywood decks, cellular glass insulation, MDF boards, sprayed in place PU foam, butyl and polypropylene sheet, lead, zinc, aluminium. Use in wet areas, exposed roofs, roof gardens, domes, terraces, balconies and patios.

Advantages include:-

- One component complete system easy to apply.
- Free from coal tar and bitumen.
- Joint free and seamless system.
- Total adhesion to the substrate. Any Mechanical damage is easily identified and repaired, unlike sheet membranes where water can travel beneath it.
- UV stable does not harden or become brittle.
- Can be applied to vertical surfaces such as roof flashings and walls without dripping or runs.
- Environment friendly. Low VOC.
- High tensile strength and elongation.
- Excellent crack bridging properties.
- Excellent UV resistance, weatherability and colour retention properties.
- No priming required.
- Root resistant.

PROPERTIES AND COMPLIANCE

Form:	Viscous liquid
Density:	1.36 - 1.38
Tensile Strength:	≥ 1 Mpa.
ASTM D412	
Elongation:	≥ 700%*.
ASTM D412	
Shore A Hardness:	50-60
Shore 00 Hardness:	85-90
ASTM D2240	
Crack Bridging:	> 2 mm.*
ASTM C836-84 and ASTM C1305-00	

Total Solids:	63% ± 3
Bond Strength:	> 0.5 Mpa
ASTM D4541	
Tear Strength:	> 10 MPa
ASTM D624	
Initial Surface Absorption:	10 min 0.00 ml/m ² /sec
BS 1881: Part 5	30 min 0.00 ml/m ² /sec
	60 min 0.00 ml/m ² /sec
Accelerated Weathering:	No cracking.
ASTM G154	
Standard Colour:	White / Grey / Green / Beige
Low temperature flexibility:	-15°C
Re-coat interval:	6 hrs.
Full cure:	7 days
Application temperature:	5 to 35°C
Service temperature:	-20 to 70°C

Values achieved are subject up to 10% variation.

*At full thickness.

SURFACE PREPARATION

Concrete surfaces to be treated must be dry, clean and free of laitance, dirt, films, paint, coatings, curing compounds, mould oils, or other foreign matter.

Structural defects such as cracks, faulty construction joints and honeycombing should be routed out to sound concrete and repaired in accordance with Cormix's specification. Horizontal surfaces should preferably have a rough wood float or broom finish.

The compressive strength of the concrete shall be at least 25 Mpa and 1.5 Mpa in tension at time of application.

PRIMING

Elastoclad PU(N) does not require priming. On highly porous surfaces, a priming coat is recommended to seal the pores and consolidate the surface. Use **Elasto - Coat Clear Sealer** as a primer. Apply primer coat @7 m²/litre.

APPLICATION & COVERAGE RATES

Mix the contents of the pail thoroughly prior to application.

A slow speed drill and suitable paddle mixer should be used to avoid the formation of air bubbles.

Elastoclad PU(N) is applied by brush, roller or airless spray, it cures after 24 hrs. to a tough, flexible membrane with exceptional elasticity and physical properties. Full physical properties are achieved after 7 days cure.

Elastoclad PU(N) is applied at between approx. 0.70 ltr/m² depending on the substrate and specification requirements. It will achieve a dry film thickness of approximately 800 microns when applied in two coats at a total of 1.4 ltr/m².

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The coating can be applied with a brush, roller or airless spray and shall be applied in a minimum of two coats. The 1st coat shall be allowed to dry completely before the 2nd coat is applied. The 2nd coat shall be applied cross wise to the first coat. Recoat interval is 6 hours. It is recommended to reinforce all corners with scrim. The scrim shall be layed into the first coat whilst it is still wet and covered fully with the second coat.

LIMITATIONS

Elastoclad PU(N) should not be applied over surfaces containing moisture, insulation that is saturated should be replaced. Existing waterproofing systems left in place must be sealed to avoid moisture movement.

To avoid potential bubbling of the system concrete containing moisture should be treated with 2 coats of **Floorgard Moisture Barrier** to a minimum d.f.t. of 300 microns. The concrete's moisture content should be < 4%. All detailing must be attended to prior to the application of **Elastoclad PU(N)** is not manufactured to seal structural cracks. Reinforce when subject to light traffic.

Extreme ambient or surface heat temperatures will have a detrimental effect on **Elastoclad PU(N)** during installation. Under high temperatures work should be performed early in the morning, late in the day or in shaded sections.

Application under direct sunlight during the heat of the day should be avoided. Protect from rainfall whilst curing.

Long term exposure to sunlight may cause chalking effect on the surface of the applied product.

CLEANING & DISPOSAL

Clean all the tools with water after use. Hardened materials can be removed mechanically. Allow the waste to cure, seal it into a suitable container and bury in landfill.

PACKAGING, STORAGE & SHELF LIFE

Elastoclad PU(N) is packed in 20 ltr pail. Store in dry, cool, ventilated conditions at temperatures between 5°C and 30°C in the original, unopened containers. If stored at high temperatures, the shelf life may be reduced.

The normal shelf life is 12 months in unopened containers stored correctly.

HEALTH & SAFETY

Handle and open container with care. Avoid inhalation or contact with skin, eyes and clothing. Wear suitable protective clothing, gloves and eye protection.

Skin contact : Wash off with plenty of soap or mild detergent and water.

Eye contact : Rinse immediately with plenty of water for at least 15 minutes while lifting the eyelids.

Ingestion : If conscious, immediately rinse mouth thoroughly and give plenty of water. Do not induce vomiting.

TECHNICAL SERVICE

The Cormix International Technical Service Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

QUALITY ASSURANCE

ISO 9001: 2015 verified by TUV Nord.

ISO 14001 : 2015 verified by Lloyd's Register International.

DISCLAIMER

Performance data is achieved testing in accordance with International Standards. Testing by others may result in different results from those published as a result of external factors such as poor sampling, incorrect mixing, varying temperatures, curing, crushing procedures etc. Cormix does not take responsibility nor need to defend others testing that does not achieve the published data. The user must test the products suitability for the intended application and purpose. Cormix reserves the right to change the properties of the product.

Site conditions and differences in materials are such that no warranty or fitness for a particular purpose, nor liability can be inferred from the published data sheet, written recommendations or from other advise offered.

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