

HIGH PERFORMANCE MODIFIED POLYURETHANE LIQUID APPLIED WATERPROOFING MEMBRANE

DESCRIPTION

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

USES & ADVANTAGES

Elastoclad PU can be applied to the following surfaces:- Concrete, roofing felt, asbestos sheeting, tiles, galvanised 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 tunnels, underground structures, wet areas, exposed roofs, roof gardens, domes, basements, 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.
- High chemical resistance against diluted acids and alkali, oil, salts, bacteria and common fuels.
- No priming required.
- Full permanent immersion.
- Root resistant.

PROPERTIES AND COMPLIANCES

Properties of the cured material applied in accordance with standard recommendations.

Form:	Viscous liquid
Density:	1.22 ± 0.02
Tensile Strength:	> 2.6 Mpa.
ASTM D412	
Elongation:	1000%*.
ASTM D412	
Recovery 24 hrs.:	100%
Shore A Hardness:	50-60
ASTM D2240	
Crack Bridging:	> 2 mm.*
ASTM C836-84 and ASTM C1305-00	
Total Solids:	63% ± 3
Bond Strength:	> 1.6 Mpa Complies
ASTM C1583	
Water Penetration Under Pressure	
BSEN 12390 : Part 8 : 2000	
5 bar	No Penetration

Service Strength :	Achieved after 7 days
Standard Colour :	White / Grey / Green / Beige
Low temperature flexibility:	-15 °C
Chemical resistance:	Dilute acids & alkalis, sea water.
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.

PRIMING

Elastoclad PU does not require priming. On highly porous surfaces, a priming coat is recommended to seal the pores and consolidate the surface. Prime by dilution Elastoclad PU with water. Apply the primer coat @ 5 m²/ltr and allow to dry.

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 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.

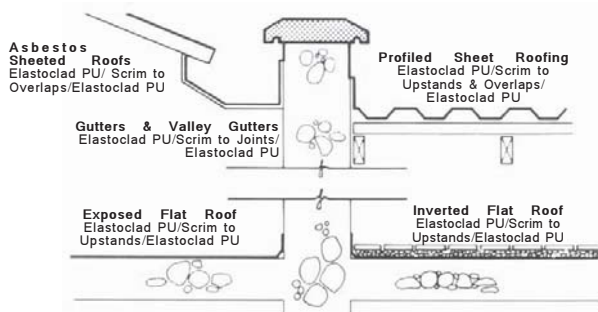
Elastoclad PU is applied at between approx. 0.70 ltr/m² depending on the substrate and specification requirements. It will achieve a dry film thickness of approximately 800 microns when applied in two coats at a total of 1.4 ltr/m².

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.

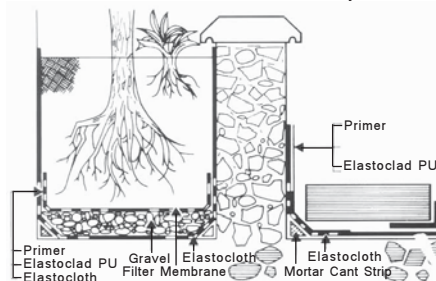
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DETAILS DRAWING

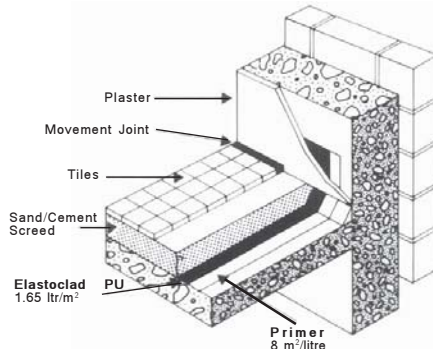
Roofs New and Refurbishment



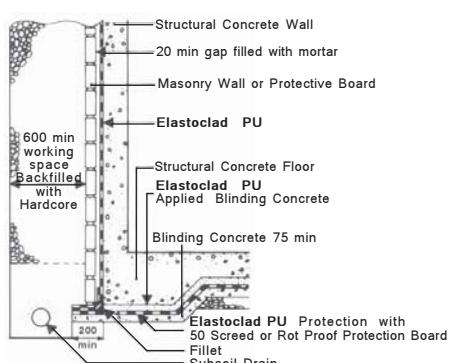
Planter Boxes - Podium Decks, Balconies



Wet Areas



Foundations



LIMITATIONS

Elastoclad PU 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 Contite 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 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 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.

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 is packed in 20 ltr containers. 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 : 2008 verified by TUV Nord.



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1012-CPD-0102

EN 1504-2

Protection and repair
of concrete structures :
Surface protection systems
for concrete coating
(PI, MC,IR)

Permeability to CO₂: SD > 50 m

Permeability to water

vapour: SD < 5 m

Capillary absorption and

permeability to water: < 0,1 kg/

m²h^{0.5}

Pull-off test: ≥ 0,8N/mm²

Dangerous substances: Comply

with 5.3

Reaction to fire: Class E

CONTACT DETAILS

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