



PU Gel Membrane

Waterproofing Elastomeric PU Membrane

Pack Size
Bucket - 20Kgs, 10kg

TDS
Technical Data Sheet



Product Description

PU Gel Membrane is a tough, UV stable, flexible liquid applied waterproof facade coating with high solar reflectance providing excellent heat insulation and energy efficiency. It can be applied at a DFT of 0.3 mm as an aesthetically attractive textured or semi-smooth finish and is available in a range of standard colours.

Features

Flexible: accommodates normal building movement. Reflects the intense solar heat with an Solar Reflectance Index (SRI) of 103. Provides excellent UV resistance and long-term protection from elements of nature. Water-based: safe to use and low odour. Breathable. Cost-effective, with longterm savings and short payback period. Naturally fungi retardant. Decorative: can be applied in different textures.

Physical Properties

Temperature	@27+/-1°C
Characteristics of liquid:	Viscous Liquid
Specific Gravity	Approx. 1.3

Characteristics of Cured Membrane

Tensile Strength	> 3.0 MPa
Elongation at break	> 350%
Solar Reflectance Index ASTM E 1980-11	>100%*
Emissivity	>0.9*
Solar Direct Reflectance	>0.8*
Overcoat time	4hrs @ 23°C 50% RH

Dry through (2nd coat)	24hrs @ 23°C 50% RH
Application temperature	10°C - 35°C (surface temp)
Service temperature:	0°C - 60°C
VOC	Low
Water Absorption	< 25% after 72 hrs

Coverage Estimates

Approx. 24m² / pack in two coats @ DFT of 0.3mm

Application Instructions

Surface Preparation

The surface to be treated must be clean, structurally sound, and free from oil, grease, wax, polish, laitance, dust and other barrier materials. All holes and cracks must be filled with a suitable filler material such as R - 17F. When applying over existing coatings, ensure they are firmly bonded. Damaged or spalled substrate should be repaired (levelled) and surface defects should be treated prior to the application of the membrane. Dense concrete surface should be mechanically roughened to remove laitance and open the pores.

Priming

Dry substrate: Apply 30% diluted PU Gel Membrane with water using a brush or roller. Allow the primer to dry for at least 2 hours before applying the first coat of PU Gel Membrane. Highly porous surfaces may need two coats. Damp substrate: For porous substrates, mix and apply, using a brush or roller, a coat of AT 107 (water-based epoxy membrane) diluted with water in 1:1:1 ratio (AT 107 Part A: AT 107 Part B: Water). Highly porous surfaces may need two coats. For non-pervious substrates, undiluted AT 107 should be applied. Allow the primer to completely dry prior to the application of PU Gel Membrane.

Note

New concrete should be left at least 28 days to cure. Plastered surface should be at least 7 days old.

Application

Substrate Preparation

Surface must be clean, sound and properly cured. Remove all loose materials mechanically, preferably with a wire brush. Iron and steel surfaces should be free of rust.

Application Steps

Step 1: Apply a generous base coat of Primer waterproofing compound by brush or roller at a spread rate of 1litre/m².

Step 2: Embed the PU Gel Membrane into the base coat while it is still wet. Ensure that the PU Gel Membrane is thoroughly embedded and smooth out all air pockets and creases. Overlaps of adjacent PU Gel Membrane must be a minimum of 50 mm.

Step 3: Immediately apply a second coat of PU Gel Membrane waterproofing compound at a spread rate of 0.6 litre/m² while the base coat is still wet to fully saturate the PU Gel Membrane from both sides.

Step 4: When touch-dry, apply a final top coat at a spread rate of 0.5 litre/m² to complete the application. Protect from rain until dry. Depending on the desired finish, apply in 2 coats at an approximate wet film thickness of 0.3mm per coat to achieve an overall dry film thickness of 0.3mm. Allow the first coat to completely dry before applying the second coat.

Pack Size

20Kgs,10Kgs



Data Reliability

All technical data provided in this document are based on laboratory tests. Actual performance may vary due to factors beyond our control.

Regional Compliance

Product specifications may vary based on local regulations. Please refer to the local Product Data Sheet for precise information.

Legal Disclaimer

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