

PROOFSEAL PU

Polyurethane Liquid Applied Waterproofing Membrane

Composition and Application Field

PROOFSEAL PU is a high solid content one component moisture curing liquid applied waterproofing coating. PROOFSEAL PU is a permanently seamless flexible membrane that can be reinforced with fiber glass mesh for high tensile strength and toughness. It is used to eliminate ground-water migration into or through subsurface structures.

Advantages

- One component liquid applied.
- High tensile strength.
- Moves with crack bridge > 3mm.
- Good adhesive to cement-based surfaces.
- Fiber re-enforcement applicable.
- Available in wide range of colors.
- Hard wearing – durable.
- Primerless.
- Applicable on concrete, wood, glass and steel.
- Applicable to apply on floor and walls.

Surface Preparation

All surfaces should be clean, dry and free from dust and other contaminants. Wet substrates should be sponge dried to remove all surface water, then dried. Treat oil or grease contamination with degreaser followed by water or steam cleaning. New and unpainted surfaces must be structurally sound, clean, dry, fully cured, and free from dust, curing agents, form release agents, efflorescence, scale, or other foreign materials. All cracks larger than hairline shall be considered as moving and must be repaired with **RENDACOAT FC** cementitious concrete repair. Remove all unsound concrete. Patches shall be flush with the surrounding surface and shall match the texture of existing surfaces. Angle fillet and corners should be arranged by using **RENDAGROUT HB** and kept to full cure before apply **PROOFSEAL PU**.

Mixing

PROOFSEAL PU is a single component only remix and apply direct into the substrate

Application Method

PROOFSEAL PU may be applied by roller. A brush may also be used for touch-up and edging work or for areas unsuitable for spray application. Airless spray and rolling are the most effective methods for obtaining a uniform film build. PROOFSEAL PU is a single component material. It is necessary to thoroughly mix the container prior to application using a slow speed mixer. PROOFSEAL PU is viscous liquid to achieve high build film with good vertical hold. Any addition of solvent must be under manufacturer consultancy. Always apply in two coats in order to avoid pinholes. Allow 24 hours drying time in-between coats. Surfaces subject to continuous splashes or permanent contact with water shall be left to dry for at least 7 days before they are filled with water. If it is used as under filling waterproofing, rough surface finish is required. It can be done by sprinkling pure silica sand over second coat while is wet.

Coverage

10.0 m² / litr at 100 microns (WFT) in one coat.

Cleaning

Tools and equipment can be cleaned immediately by using

THINNERCOAT 20 organic solvent.

Package

1, 5 USG

Technical Properties

Property	Value	Test Method
Specific Gravity	1.35 ± 0.05	S.G. Cup
Solid Content	%1 ± 85	ASTM D 1353
Tensile Strength	>6.0 N/mm ²	ASTM D 412
Elongation at Break	600 ± 25%	ASTM D 412
Permeability	Nil	BS EN 12390
Water Vapor Transmission	<0.02 @ 1 mm DFT	ASTM E96
Hardness, Shore A	50	ASTM D 2240
180° Peel Adhesion	9 kg/2.5 cm	Metal Plate
Tear Resistance	> 10 N/mm	ASTM D1004
Resistance to Bacteria	No Attack	ASTM D4299
Resistance to Algae	No Attack	ASTM G 29
Resistance to Chemicals	Limitted effect	Visual Check
Resistance to Hydrostatic Pressure	>10 bar	DIN 1048
Positive	>5 bar	
Negative		

Storage and Shelf Life

Product should be stored at 25°C in dry conditions. 6 months in tightly closed container.

Flammability

PROOFSEAL PU and THINNERCOAT 20 are flammable materials so do not expose to naked flames or smoking during application.

Health and Safety

Avoid contact with the skin and eyes. Wear suitable protective clothing such as overalls, goggles, dust mask and gloves. Use a barrier cream. Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe vapour or spray. MSDS is available on request for the safe handling of this product.

FIRST AID

Eyes: In the event of accidental splashes, flush eyes with warm water immediately and obtain medical advice.

Skin: Wash skin thoroughly with soap and water or approved industrial cleaner. DO NOT USE solvent or thinners.

Inhalation: Remove to fresh air, loosen collar and keep patient rested.

Ingestion: In case of accidental ingestion DO NOT INDUCE VOMITING. Obtain immediate medical attention