



# PROOFSEAL PU

## Polyurethane Liquid Applied Waterproofing Membrane

## Technical Data Sheet

### 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.

### Uses

**PROOFSEAL PU** is intended to be used in areas where water dampening of surfaces is critical. It has the ability to uniformly cover the profile of textured substrates, forming a continuous membrane.

**PROOFSEAL PU** effectively covers existing hairline cracks and repaired areas, and bridges hairline cracking caused by structure movement.

**PROOFSEAL PU** is ideal for waterproofing concrete roof, balconies, planter boxes, decks, wood, glass, asbestos, tiles, metal surface and masonry building exteriors.

**PROOFSEAL PU** act as an effective waterproofing membrane in concrete water storage tanks, retaining walls, swimming pools, kitchens and showers.

### Advantages

- One component liquid applied. High tensile strength.
- Moves with crack bridge >3mm.
- Good adhesive to cement-based surface.
- Fiber re-enforcement applicable. Hard wearing-durable.
- Available in wide range of colors. 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. A dry sponge should be used to remove water on wet surfaces. Treat oil or grease contamination should be removed degreaser followed by water or steam cleaning.

New and unpainted surface 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 spraying 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 tiling waterproofing, rough surface finishes is required. It can be done by sprinkling pure silica and over second coat while it is still wet.

### Coverage

Actual coverage may vary depending on surface profile, porosity, method of application and job conditions. **PROOFSEAL PU** is applied at the rate of 4 - 5 m<sup>2</sup>/gallon at thickness of 600 microns.

### Cleaning

Tools and equipment can be cleaned immediately by using **THINERCOAT 20** organic solvent.

### Package

1, 5USG.

### Technical Properties

Property	Value	Test Method
Specific Gravity	1.35 ± 0.05	S.G. Cup
Solid Content	85 ± 5%	ASTM D 1353
Tensile Strength	>6.0 N/mm <sup>2</sup>	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 E 96
Hardness, Shore A	50	ASTM D 2240
180° Peel Adhesion	9 kg/2.5 cm	Metal Plate
Tear Resistance	> 10 N/mm	ASTM D 1004
Resistance to Bacteria	No Attack	ASTM D 4299
Resistance to Algae	No Attack	ASTM G 29
Resistance to Chemicals	Limited effect	Visual Check
Resistance to Hydrostatic Pressure Positive Negative	>10 bar > 5 bar	DIN 1048

### Storage and Shelf Life

Product should be stored at 25°C in dry conditions. 18 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

The application of materials should be in good ventilation and avoid inhalation of the vapors. Use goggles and vinyl gloves. In case of contact with eyes, rinse immediately with plenty of clean water, do not use solvent and seek medical attention immediately. The product complies with environment and occupational health & safety standards ISO 14001 and OSHA 18001