



PROOFSEAL PT

Polyurethane Pitch Waterproofing Membrane

Technical Data Sheet

Composition and Application Field

PROOFSEAL PT is single component coal tar pitch polyurethane moisture curing liquid applied waterproofing membrane. **PROOFSEAL PT** 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 PT 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 PT effectively covers existing hairline cracks and repaired areas, and bridges hairline cracking caused by structure movement.

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

PROOFSEAL PT also performs as an effective waterproofing membrane for concrete constructions underground, retaining walls, and wet areas e.g., swimming pools, kitchens and showers.

Advantages

- One component liquid applied. High tensile strength.
- Moves with crack bridge >3mm.
- Adheres tenaciously to cement-based surfaces.
- High resistance to mineral salts. Hard wearing-durable.
- Prime less. Apply on concrete, wood, glass, and steel structures.
- Apply on floors and walls.

Surface Preparation

All surfaces should be clean, dry and free from dust and other contaminants. Wet substrates should be used sponge dried to remove all surface water, then dried. Treat oil or grease contamination should be removed degreaser followed by water or steam cleaning.

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. In case of bad surface, application has to one coat primer of mixture of **PROOFSEAL PT** with special diluent (refer to RITVER) 1:1 by volume then mix thoroughly then apply it by brush or roll.

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 PT**.

Mixing

PROOFSEAL PT is a single component, only remix and apply direct into the substrate.

Application Method

PROOFSEAL PT 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 PT is a single component material. It is necessary to thoroughly mix the container prior to application using a slow speed mixer.

PROOFSEAL PT 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.

Coverage

Actual coverage may vary depending on surface profile, porosity, method of application and job conditions. **PROOFSEAL PT** is applied at the rate of 4 - 5 m²/gallon at thickness of 600 microns.

Cleaning

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

Package

5USG.

Technical Properties

Property	Value	Test Method
Specific Gravity	1.25 ± 0.05	S.G. Cup
Solid Content	90 ± 5%	ASTM D 1353
Tensile Strength	>2.5 N/mm ²	ASTM D 412
Elongation at Break	700 ± 25%	ASTM D 412
Permeability	Nil	BS EN 12390
Water Vapor Transmission	<10.0 am/m ² /day	ASTM E 96
Hardness, Shore A	55	ASTM D 2240
Tear Resistance	> 5 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		DIN 1048
Positive	>10 bar	
Negative	> 8 bar	

Storage and Shelf Life

Product should be stored at 25°C in dry conditions. 18 months in tightly closed container.

Flammability

PROOFSEAL PT 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