PROOFSEAL PT®

Single Component Elastomeric waterproofing Membrane

PRODUCT DATA SHEET
Edition: 10-8-2022
ID No: PROOFSEAL PT: V:14

PROOFSEAL PT® WATERPROOF PRODUCT

DESCRIPTION

PROOFSEAL PT® is a Cold Applied Single Component and Highly Elastic Pitch Modified Hydrophilic and Aliphatic Polyurethane Dispersant Waterproofing Membrane with Root Inhibitor.

USES

PROOFSEAL PT® is applicable for:

- Concrete & Polyester Built Up Roofs
- Compacted Soil in Which Blinding is not Required.
- Masonry& Metal Surfaces
- Basements & Foundations
- Wet Areas (Horizontally and Vertically)
- Green Plantations on Roof Basements
- Concrete and Glass Fiber Reinforced Surfaces
- Water Tanks
- Swimming pools pre-tilling

ADVANTAGES

- Highly Elastic
- High Tensile Strength
- Horizontal & Vertical Surfaces
- Crack Bridging >3mm
- Rubber Like Membrane
- Resistant To Oxidation
- Moist & Water Tolerable
- UV Resistant
- Highly Durable
- Repair Friendly
- Spray Applied
- Low VOC

COMPLIANCE

Complies with ASTM D 2833, D-412, D-417, E-96/BW& ASTM C 836

MATERIAL DATA

Product	**PROOFSEAL PT®** **PROOFSEAL PT® (W)** wall grade
Form	Dark Black
Packing	4KG per 1USG|15KG & 22KG per 5USG Pack
Storage	12 month in unopened packaging, between 5°C and 35°C

TECHNICAL DATA

Property	Value	Test Method
Density	1.05 ±0.1	ASTM D6937 - 08
Tensile Strength		
W/o reinforcement	>1.5 N/mm²	ASTM D 412
With Reinforcement	>10.0 N/mm²	
Elongation at Break	600 ± 25%	ASTM D 412
Shore A Hardness	53	ASTM D 2240
Tear resistance		
W/o Reinforcement	>20N	ASTM D 624
With Reinforcement	>100N	
Adhesion to Concrete	>1.5N/mm²	ASTM D4541-17
Abrasion Resistance	<120 mg	ASTM D 4060-14
Resistance to Bacteria (7days)	No Attack	ASTM D 4783
Resistant to Algae (14 days)	No Attack	ASTM G 29-96
Water Vapor Transmission	<1.0 gm/m²/day	ASTM E 96
Softening point	>55°C	ASTM D 36/D36M
Service Temperature	-30/+75ºC	ASTM D2485
Extensibility after heat aging	No Crack	ASTM C 1522
Permeability @ 5 Bar	Nill	BS EN 12390
Hydrostatic Resistance @4mm	>500 Mpa	ASTM D 5385
Extensibility After Heat aging	No Deformation	ASTM C 1522
Artificial Weathering	No Loss of Flexibility	ASTM D 6947
UV Resistance	Resistant	ASTM E 96
Resistant to Chemicals	Chlorine Water	No Effect
ASTM D 1308	Nitric Acid 20%	No Effect
	50% NaOH	No Effect
	10% HCL	No Effect
	10% Acetic Acid	No Effect
	Alkalis	No Effect

APPLICATION DETAILS

Substrate should be sound, clean and free from dirt, dust, laitance and all loosely adhering particles. All cracks larger than 3.0mm should be filled with cement base concrete repair.

All joints should be filled with angle fillers and left to properly cure prior to application.

All movement joints should be treated using **PROOFSEAL PT®** on both side at 10cm and while wet, embed the nonwoven reinforcement sheet (curved Shape) to cover both sides and leave it over night for curing prior to over coating with **PROOFSEAL PT®**

Application

- **Priming:** it is always advisable to Prime the surface using Self Primed **PROOFSEAL PT®** or **BAYPRIMER PU4060®**, ready to use solvent base Polyurethane Primer. **EPOPRIME 65** an epoxy based primer can be applied in plantation areas with aggregates size of 0.6-0.8 distributed when wet, to create a stronger bonding Technical Property.
- **Application:** Apply 2 coats **PROOFSEAL PT®** up to 1.30 mm WFT per coat thickness directly to the prepared substrate after mixing the **PROOFSEAL PT®** with a slow speed mixer, then apply it using a notched trowel, Roller, brush or Airless spray machine and spread the product evenly over the area. Apply two coats in order to avoid pinholes.
- **Protection:** To increase the protection of the system, a separate layer of Non-woven geotextile >350gm can be laid on the final wet coat of **PROOFSEAL PT®**
- **Reinforcement Sheet (joints & Angles):** for higher tensile strength and Tear resistance it is recommended to incorporate a reinforcement sheet in between the 2 coats with 24 hours curing period prior to applying the final coats, in which a homogeneous finish should be achieved at the final stage of coating application.
- **Damp proofing**: Apply 2 coats of **PROOFSEAL PT®** at a rate of 0.2 mm per coat over 2 coats with 4-6 hours recoating period

*Note: Surfaces Subject to continuous splashes or permanent contact with water shall be left to dry for at least 2 days before **PROOFSEAL PT®** is applied.*

Mixing Procedure:

For large volume mixing use a low speed drill and mix it for 3 min

Spreading Rate

1.2ltr/m² @ 1.0mm DFT

Curing

12 hour Touch Dry
24-36 hour partial curing subject to water testing
7 days Full Curing from the date of final application

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SAFETY

Protection Measures

PROOFSEAL PT® is Solvent based and there is risk of cauterization in the event of contact with the eyes; will lead to dehydration and thereof irritation in case of contact with skin. So while mixing and applying the product, protect with safety goggles and protective gloves

- Splashes to skin must be washed off with water and Soap
- Splashes to the eyes must be rinsed with clean warm water. Seeking medical attention is highly recommended and mandatory

Transportation

Non-Hazardous Material

Remarks

Empty cans should be disposed as per the rules and regulations of the country where the material is used. And in **NO case should empty cans be used for food stuffing.**

Updated Technical Data Sheet

For Updated Technical Data sheet, kindly scan the QR Code here-under

Important Notice:

The above data is based on our experience and extensive laboratory tests. It may be considered to be a general advice only and cannot be granted to meet the requirements for all the intended uses. It is the responsibility of the end user to ensure that the product is suitable for the purpose for which he wishes to use it. In view of many varying factors that are encountered during the application of the product it does not exclude the end users from not conducting their own test before actually using the product. We are thus only responsible for the quality of the product itself and not responsible for its performance, nor would we accept any liability whatsoever or howsoever arising from the use of this product. Any such matters should be specifically agreed to in writing by us. Bayshield reserves the right to modify the contents of the data sheet from time to time without notice as a system requirement in updating our products from time to time.