

FIBELASTIC PLT

Spray/Roller/Brush Applied waterproofing membrane for Tunnel lining / structure

Product # 114.44

Version no: 16.11.23

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PRODUCT DESCRIPTION: FIBELASTIC PLT is a high performance, single component UV cross linking high end proprietary polymers in powder foam, spray applied waterproofing coating. It is spray applied in a sandwich structure between two layers of sprayed concrete/cast concrete layers creating a double bonded composite shell lining. It is an effective alternative to conventional waterproofing sheet membranes. As a double bonded system, this provides excellent water tightness, preventing the development of water migration on both sides of the membrane.

AREAS OF APPLICATION

- Particularly well suited for underground structures with complex profiles and geometry
- Sprayed concrete tunnel and shaft linings
- Underground Basements
- Water Retaining structures
- Negative waterproofing
- Suitable for all metal surface applications

ADVANTAGE

- Fast and Easy Application, Non Toxic
- Excellent Adhesion to concrete
- Double bonded system enhances the waterproofing performance
- Tough and flexible for use with steel fiber sprayed concrete
- No special transportation classifications
- Can be applied to 24 hours cured concrete also
- Non Ignitable
- Excellent crack bridging ability

APPLICATION METHODOLOGY

SURFACE PREPARATION

- Surface must be free from any release agents, laitance, dust, loose material etc. which can effect the adhesion.
- Surface should be surface saturated dry before coating.
- For rough surface it is advisable to provide smoothening layer to reduce the material consumption and improve coating uniformity.
- Make sure any active water ingress is stopped with suitable material before application of coating.
- For active water ingress area, fix Fibelastc PLT fleece to give dry surface for coating. Fibelastc PLT fleece will allow drainage of water from water ingress.
- Fibelastc PLT can be applied in two layers to ensure proper coating.
- Fibelastc PLT is absolutely compatible with Fibelastc PLT spray applied coatings which can also be used as composite system.

MIXING

Powder : Water

Fibelastc PLT : 38% to 40% by weight of powder.

Add water first into the bucket & scaling while stirring add powder till the mix is smooth & consistent.

PRIMING

Fibelastc PLT is not normally require primer. However, high absorbent surfaces such as porous

Concrete, sand/cement and cement boards will require sealing to prevent absorption of Fibelastc PLT Use Fibfloor Cem Primer (Universal Primer)/Eversil Primer or Fibrex primer.

APPLYING AND LAYING

The material should be applied to the prepared surface using spray, roller or brush. Ensure material is spread evenly. Do not re-roll later. The work area should be protected during the installation process and during the initial curing time to ensure that no airborne debris can contaminate.

CLEAN UP

Clean all tools immediately after use with water. Do not allow material to harden. Any hardened material will need to be removed mechanically.

TECHNICAL SPECIFICATIONS

PROPERTY	RESULTS	TEST METHOD
Color And Physical Appearance	Powder & off-white or Red color	
Water Pressure Resistance	15 bar	EN1928
Application Thickness	1 mm minimum	
Application Temperature	-5°C to 40°C	
Water Tightness	Passed	(EN 12390-8 and EN 14891 Part A7)
Flammability	Passed	(EN ISO 11925-2)
Shore Hardness (12 days)	35 ± 10	ASTM D 2240
Crack Bridging	2.6 mm	(EN 1062-7)
Chemical Resistance	Pass	(EN 14414)
Elongation	265%±50%	(ASTM D 412)
Impermeability to Water Kg/m ² .h0.5	<0.02	EN 1062-3
Adhesion to primed concrete	>2.5 MPa	ASTM D 903
Light Pedestrian Traffic Time	18-24 hours	
Fungus Resistance	Pass	ASTM G 21
VOC Content	<0.5 g/L	ASTM D6886
Initial Drying Time @ 25°C	2 hours	
Recoating Time @ 25°C	6 hours	
Full Cure(1mm@30°C)	3 days	
Ready for Pond Test	7 Days	ASTM D 2939
Tensile Strength	2.93 MPa	ASTM D 412
Tear Strength	22 N/mm	DIN 53515

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Product Data Sheet

Artificial Exposure to atmospheric agents	2000 hrs	ASTM D 4799/EN 1062-11
Mildew Resistance	Passes	ASTM D3273/4
Low temperature flexibility	-18°C	
Coverage	1kg/sqm/mm	

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

PACKAGING

Fibelastic PLT is available in 15 kg Plastic Bag.

STORAGE

Fibelastic PLT has shelf life of 12 months if stored properly in original, unopened bags between +5°C to + 40°C in dry areas.

PRECAUTIONS

During mixing and application the following precautions should be observed: ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Avoid contact with the hands by wearing protective gloves, if necessary, a suitable barrier cream. In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water (do not use solvents). Prolonged contact with the skin should be avoided Always wear gloves and eye/face protection as necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

DISPOSAL / SPILLAGE

Spillage of any of the component products should be absorbed onto sand or other inert material and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

NOTE

Fibseal PLT is formally known as Fibelastic PLT. The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our company policy is one of continuous Research and Development we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products however as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

HEALTH AND SAFETY

This material is intended to be used by trained professionals with proper equipment's. The following safety measures are recommended:

- Wear protective gloves, clothing, goggles, hearing protection for noise reduction and hard hats for falling debris.
- Do not eat, drink or smoke while in active contact with these materials.
- Avoid skin contact.
- Wash hands thoroughly with soap and cool water.
- Never wash the skin with a solvent.
- Anyone experiencing difficulty breathing when working with these materials or showing an allergic reaction should seek fresh air immediately and consult a physician if symptoms persist.

DISCLAIMER:

Fibrex Construction Chemicals pvt. ltd. products though are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Fibrex wishes to clarify that any advice, recommendation, specification or information is accurate and correct, though it cannot, at any time assume any liability either directly or indirectly arising from the use of its products. This is because it has no direct or constant control over where or how its products are applied, and whether or not in accordance with the advice specification, recommendation or information given by it.

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