

FIBELASTIC PLT 20

Flexible Spray Applied Waterproofing Membrane

Product # 114.43
Version no: 16.11.23

Data
Tech

PRODUCT DESCRIPTION: FIBELASTIC PLT 20, single component PMMA & acetate hybrid waterproofing system. 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
- Terrace Waterproofing / Podium waterproofing
- Underground Basements
- Water Retaining structures
- Negative waterproofing up to 15 bar pressure
- Basements, ground floors & suspended floors
- Balconies, roof terraces
- Retaining wall

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
- 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 smoothing 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.
- Fibelastc PLT 20 can be applied in two layer to ensure proper coating.
- Fibelastc PLT 20 needs to be protected from rain during application.
- Detailed Methodology will be submitted depending on site conditions.

MIXING

Powder: Water

Fibelastc PLT 20: 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 20 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 20 Use Fibfloor Cem Primer (Universal Primer).

APPLYING AND LAYING

The material should be applied to the prepared surface using roller, brush or spray. 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	30 ± 5	ASTM D 2240
Crack Bridging	2.6 mm	(EN 1062-7)
Chemical Resistance	Pass	(EN 14414)
Elongation (28 days)	200%±50%	(ASTM D 412)
Impermeability to Water Kg/m ² .h0.5	<0.02	EN 1062-3
Adhesion to primed concrete	>4.5 N/mm ²	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	3 days	
Ready for Pond Test	7 Days	ASTM D 2939
Artificial Exposure to atmospheric agents	2000 hrs	ASTM D 4799/EN 1062-11
Mildew Resistance	Passes	ASTM D3273/4
Coverage	1 kg/sqm/mm	
Tensile Strength	2.3-2.5	MPa (ASTM D 412)

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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 20 is available in 15 kg Plastic Bag.

STORAGE

Fibelastic PLT 20 has shelf life of 12 months if stored properly in original, unopened packing between +40° to + 50° 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 and using, 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, especially where the user has an allergic reaction. 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 20 is formally known as Fibelastic PLT 20 . 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 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 Construction Chemicals 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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