

FIBELASTIC APP 4.0

4 mm Polyester Reinforced Plastomeric APP membrane

Product # 114.55
Version no: 04.8.21

Technical Data

PRODUCT DESCRIPTION: Fibelastc APP 4.0 is elastomeric waterproofing membranes manufactured in an advanced continuous calendaring process by saturating and coating a synthetic carrier with a waterproofing compound made of a special grade of bitumen, which is modified with APP polymers. While the APP polymers enhance the thermal, mechanical, and aging properties of the membranes compound, the mechanical characteristics of Fibelastc APP 4.0 are established by the non-woven continuous filament spun-bond Polyester which acts as the reinforcement that provides the membrane with its particular tensile strength, tear resistance, puncture resistance and elongation properties. The upper surface of Fibelastc APP 4.0 is covered with an anti-adhesive finish material while the lower face is laminated with a thermo-fusible polyethylene film.

AREAS OF APPLICATION

- Terraces
- Podium & Deck Slabs
- Wet Areas
- Underground Structures

ADVANTAGE

- Elastomeric Properties
- High Resistance to water
- Embossed finish to ensure proper anchoring
- High strength reinforcement
- Resists Root Penetration

APPLICATION

- Clean the surface thoroughly to make it smooth and free of any foreign material.
- Apply a coat of Bitutack Primer @ 0.3 KG per sqm and allow it to dry. In areas of high humidity, the primed surface should be left over-night.
- On the primed surface, start laying of membrane at lowest point of the slope roof and progress to the higher point. Unroll the membrane half-way, align the side laps and fix Fibelastc APP 4.0 membranes by using a LPG torch and applying uniform pressure with a roller/wet cloth to ensure to remove entrapped air, if any.
- Flame should be moved in shape of "L" applying about 75 percent of the heat to the roll and 25 percent to the substrate including the lap area of previously installed membrane. The flame should be moved across the width and upto the lap edge while membrane is slowly unrolled and adhered to the under lying surface.
- Heat both layers of membrane at the overlap and use round tipped hot trowel to seal overlap. Excess compound should be smoothened and pressed into seam using hot trowel. Overlap joint shall be provided of 75 mm in longitudinal direction and 100 mm in transverse direction
- For UV protection on non-trafficable roof, Fibelastc APP 4.0 waterproofing membrane shall be finally coated with Fibelastc PU / Xtreme.
- For trafficable roof Fibelastc APP 4.0 Waterproofing system shall be protected with PCC dosed with Fibrex No.1 of 50mm thick / tiles loosely laid or fixed, over a separation layer of FIBFLEX GEOMAT.

- Alternate methods such as mechanical fastening, special adhesive can also be used for bonding on case to case basis.

CLEAN UP

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

TECHNICAL SPECIFICATIONS

Property	Test Method	Tolerance	Unit	Result
Thickness	EN-1849-1	± 5%	mm	4
Softening point	ASTM D- 36	Min.	°C	150
Penetration 25 °C	ASTM D -5	± 5%	mm	30
Pliability	ASTM D 228	-	°C	-5 to 2
Tensile Strength - Longitudinal	EN-12311-1	± 20%	N/50 mm	650
Tensile Strength - Transverse	EN-12311-1	± 20%	N/50 mm	450
Elongation At Break - Longitudinal	EN-12311-1	±15	%	45
Elongation At Break - Transverse	EN-12311-1	±15	%	50
Tearing Strength - Longitudinal	ASTM D- 5147 . D 4073	± 30%	N/50 mm	320
Tearing Strength - Transverse	ASTM D- 5147 . D 4073	± 30%	N/50 mm	270
Resistance to Static Loading	EN 12730 Method A	Min.	N	15
Dynamic Puncturing (Impact Resistance)	EN 12691 Method B	Min.	mm	450
Flow Resistance At Elevated Temperature	EN-1110	Min.	°C	100

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Flexibility At Low Temperature	EN-1109		°C	-2
Dimensional Stability	EN-1107-1	Max.	%	±0.5
Water Impermeability- Water tightness at Low Pressure	EN-1928 Method A		60 Kpa	Pass
Water impermeability- Water tightness at High pressure	EN-1928 Method B	Min.	Kpa	150
Vapour Permeability	EN 1931		μ	60000
Shear Resistance Of joints – Longitudinal	EN-12317-1	± 20%	N/50m m	650
Shear Resistance Of joints – Transverse	EN-12317-1	± 20%	N/50m m	450
Adhesion To Concrete (Torch Applied)			N/ 50mm	20
Resistance to root penetration	EN-13948			NPD

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 APP 4.0 is available in 1mx10m Rolls.

STORAGE

Store Fibelastic APP 4.0 membranes at temperatures between + 10° C and + 35° C and in dry, clean conditions and in their original, closed wrapping away from sources of chemical contamination, damage, ignition sources and open flame. Shelf life is beyond 6 months. Exercise caution when lifting, moving, transporting, storage & handling to avoid puncture and physical damage.

PRECAUTIONS

During 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 busing, 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.

NOTE

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.

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Data Tech

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FIBREX OTHER PRODUCTS – WE DO

