

FIBELASTIC SAM

One pack aliphatic PU hybrid aqueous UV Crosslinking water based waterproofing Coating

Product # 114.46

Version no: 24.7.21

Technical Data

PRODUCT DESCRIPTION: Fibelastical sam is a ready to use liquid waterproofing membrane developed by the FIBREX R&D laboratories specifically designed for preformed weathered membranes such as APP, TPO, EPDM, PVC etc. It is an innovative system made from synthetic polyurethane hybrid elastomers with inorganic binders and carefully selected minerals in water dispersion containing no solvents and no VOC. On exposure to direct sunlight UV cross linkers activate and strengthen the coating increasing the dirt pickup resistance. Drying process of coating releases only water vapors and no other toxic chemicals found in conventional coatings. Fibelastical sam is designed to last for 15 years on properly treated surfaces. Fibelastical sam adheres strongly to numerous types of substrate and with its high elasticity provides exceptional crack bridging properties. Due to its special adhesion promoting formulation and UV absorbers, Fibelastical sam has excellent mechanical properties that remains stable over the years. Fibelastical sam is easy to apply by brush, roller or spray on horizontal, vertical and sloping surfaces. The product dries quickly in thin coats and several coats may be applied in a very short space of time to reduce site waiting times to a minimum. FIBELASTIC SAM COMPLIES TO ENERGY STAR PARTNER PRODUCT AND UL 790 STANDARDS.

AREAS OF APPLICATION

- Preventive protection of Asphalt shingles, APP membranes
- Protection of corroded metal roofs
- Waterproofing of weathered TPO, EPDM, APP membranes, Asphalt shingles

ADVANTAGE

- Seamless Waterproofing
- Fully-Adhered Installation
- Asphalt Bleed Resistance
- Aliphatic PU durability
- Energy Savings
- Prolonged Roof Life
- Reduced life cycle costs
- Renewable
- Zero VOC
- Anti Dust technology

APPLICATION METHODOLOGY

SURFACE PREPARATION

Careful surface preparation is essential for optimum finish and durability. The surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the membrane. Any damaged sheets having loose bonding to substrate, cracks > 2 mm and totally chalky surface need to be replaced prior to treatment. Any prior coating of aluminium paint needs to be sanded properly. Surface should be sanded properly to remove any loose chalky membrane.

PRIMING

One priming coat of Eversil applied @ 300-500 gm/sqm is applied either by brush or airless spray gun.

APPLYING

One coat of Fibelastical sam can be brush or airless spray gun applied @ 500 gm/sqm. While the coating is still wet, Fibflex Geomesh should be Zero VOC Anti Dust technology inserted on the weathered sheets having cracks. For sheets having no cracks, Fibflex Geomesh can be skipped. After the drying of 1 coat, 2nd coat of Fibelastical sam can be applied by brush or airless spray gun.

Reinforce always with the FIBFLEX GEOMESH at areas where cracks are > 1mm wide. For detailed application instructions with the FIBFLEX GEOMESH, contact our Technical department. Do not apply the Fibelastical sam in temperatures below 5° or when dew, rain or frost is imminent in the next 24 hours. For best results, the temperature during application and cure should be between 5° and 35°. Low temperatures retard cure while high temperature speed up curing. High humidity (fog or dew conditions) retard cure and affect the curing times and curing properties.

For areas prone to heavy dust and industrial contaminants it is recommended to apply 1 coat of Peterseal as top coat. Application in High Temperature or Uncured Concrete or High water vapor pressure area can cause shrinkage cracks or blistering due to improper curing of coating. Avoid application in such conditions. Finishing For heavy traffic and load areas, apply 50-75 mm protection screed on horizontal areas and 15-20 protective plaster for vertical areas. For Protection plaster on vertical areas it is recommended to sprinkle dry sand while the final coat is being applied to provide anchoring for plaster.

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TECHNICAL SPECIFICATIONS

PROPERTY	RESULTS	TEST METHOD
Appearance	Viscous liquid	
Color	White	
Viscosity mPa.s	5000-10000	
Solid Content %	70-72	
Elongation at break	250%	ASTM D 412/DIN 53504
Tensile Strength	>1.5 N/mm	ASTM D 412/DIN 53504
Crack Bridging	Class A5 Class B4.2	EN 1062-7
Permeance (Perms)	4	
Light Pedestrian Traffic Time	18-24 hours	
Fungi 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	
Minimum DFT	500 microns	
Full Cure	3 days	
Ready for Pond Test	7 Days	ASTM D 2939
Artificial Exposure to atmospheric agents	1000 hrs	ASTM D 4799/EN 1062-11
Salt Spray Resistance	500 hrs no blistering	ASTM B 117
Mildew Resistance	Passes	ASTM D3273/4
Adhesion on 7 years weathered 3mm APP	1.4 kg/sqm	
Adhesion on 7 years weathered 3mm APP membrane	>1.5 N/mm	ASTM D412

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.

LIMITATIONS

- Do not apply FIBELASTIC SAM on surfaces known to, or likely to, suffer from rising dampness, potential osmosis problems or having relative humidity greater than 75 %. Consult fibrex before using FIBELASTIC SAM in those areas.
- Do not apply FIBELASTIC SAM weak or infirm concrete, unmodified sand-cement screeds, PVC tiles or sheets, or substrates known to move substantially.
- Do not apply FIBELASTIC PU over treated expansion joints.

Please contact FIBREX for installation of floor coating over

- Oil / Fat rigged floors
- Floors with rising moisture problem
- Asphalt based surface (interior)
- Floors with a pull off strength less than 1.5 N / mm²

PACKAGING

FIBELASTIC SAM is available in 20 kg Plastic Buckets and 200 kg HDPE Barrels.

STORAGE

FIBELASTIC SAM has shelf life of 12 months if stored properly in original, unopened packing between +5° to + 40° 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.

FIBELASTIC PU

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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

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.

FIBREX OTHER PRODUCTS – WE DO

