

Product Description

La FibreFlex XXL is a two component Hi-Elastomeric cementitious fibre reinforced excellent crack bridging waterproofing system. It's based on cementitious binders, low Tg acrylic polymer, graded aggregates, special additives to provide superior potable waterproofing system.

When the two components are mixed with recommended proportion of powder and polymer a blend with a plastic consistency is obtained.

La FibreFlex XXL can be applied by stiff brush, roller or trowel to obtain the desired thickness on horizontal and vertical surfaces.

Standard

Tested to ASTM D4541, ASTM D882, ASTM D 1653, ASTM D 570, USFDA-175.300, BS-6920, DIN-1048
Tested at CFTRI, Mysore

Uses

La FibreFlex XXL is an high performance elastomeric cementitious coating used for waterproofing and to protect atmospherically exposed reinforced concrete structures. All environmental conditions and is suitable for all types of concrete structures.

The product can be used on concrete, brick and block-work substrates and is equally suitable for new and existing structures.

The product is designed to

- Re-surface and even out variations in concrete and masonry surfaces and bridge shrinkage cracks.
- It provides a seamless, flexible waterproof coating suitable for water tanks, reservoirs, basements, swimming pool & roofs.
- Suitable for potable water retaining structures
- Foundation in contact with ground water and saline conditions.

Advantages

- Flexible and Fibre Reinforced to accommodate thermal movements
- Superior water impermeability
- Approved for use in contact with potable water
- Excellent barrier to carbon dioxide, chloride & sulphate ions
- Allows water vapour to escape from the structure
- Non-toxic ideal for potable water tanks
- Flexible with thermal expansion similar to concrete
- Excellent bond to concrete and masonry
- Excellent crack bridging ability before and after immersion

Technical Properties

Pot life	30mins @30°C
Mixed density	1.8±0.3g/cc (brushable Consistency)
Tensile strength	1.2 N/mm ² (at 1.0mm thk) (as per ASTM D 882)
Colour	Grey
Adhesion Bonding with Concrete	2.0 N/mm ² (ASTM D 4541)
Water vapour Permeability test	1.0 (gm./m ² /hrs) (ASTM D 1653)
Water Absorption	1.2% (ASTM D 570)
Global migration test (USFDA-175.300)	1.36mg / in ²
Adhesion to concrete	Excellent
Toxicity	Non-toxic
Static crack	1.0mm
Flexibility expressed as Elongation %	>110
Resistance to water Pressure (DIN-1048) Pt5	5 bar

Application Instructions

Surface preparation

All surfaces which are to receive the coating must be free from oil, laitance, grease, wax, dirt or any other form of foreign matter which might affect adhesion.

Typically concrete surfaces can be cleaned using high pressure water jet or grit blasting or by proper wire brushing. Spalled surfaces or those containing large blow holes, cracks and other such defects should be repaired using La Greens concrete repair mortars.

Priming

To further improve waterproofing and bonding properties on porous substrates, we recommend La Brush Seal, a penetrating water repelling acrylic primer. La BrushSeal which ensures proper adhesion of all brushable acrylic elastomeric membrane coatings when waterproofing is done on porous substrates. It also acts as a bond layer between elastomeric coating and substrate.

The surfaces to be primed must be dried before treating with La BrushSeal.

Mixing

The liquid polymer should be poured into a suitable container and mechanically mixed using slow speed drill (500rpm). The powder component should be added gradually to the liquid to avoid lump formation and mixed for 2-4 minutes. La FibreFlex XXL should be immediately used after mixing. Do not mix more material than can be used within the pot life. Keep stirring La FibreFlex XXL during the application.

Mixing Ratio

La FibreFlex XXL

Components	Industrial Pack
Part A : Powder	20kg
Part B : Polymer	10kg

Application

For best results, surfaces should be damp. In order to obtain the protective properties of La FibreFlex XXL, it is important that the correct rates of application are observed. Use a short stiff brush preferably 120-150mm width and apply the mixed material like paint.

The application of La FibreFlex XXL should not be done if the temperature of the substrate is below 10°C. When applying La FibreFlex XXL on hot substrates i.e., over 30°C surface temperature, saturate the surface with water. Apply La FibreFlex XXL in 2 coats to achieve 1mm thickness. The second coat of La FibreFlex XXL shall be applied as soon as the first coat has reached touch dry state. It is recommended that for general surfacing La FibreFlex XXL should be applied at a minimum thickness of 1mm. Areas subjected to moderate and heavy loads/hydrostatic pressure, minimum 2mm thickness coating is recommended with screed above.

Allow the La FibreFlex XXL coating to dry before covering with screed. Sprinkle coarse sand on wet surface for better adhesion of screed.

To further improve elongation at failure and crack-bridging on horizontal surfaces, we recommend sandwich layer of non-woven macro-holed polypropylene fabric on the first coat of freshly laid La FibreFlex XXL using flat-bladed trowel to make sure that it is perfectly buttered. Apply second coat of La FibreFlex XXL to cover the fabric and smooth over the surface using flat-bladed trowel.

Average drying time is 4 to 6 hours at normal temperatures.

Cleaning

La FibreFlex XXL should be removed from tools and equipment with clean water immediately after use. Hardened material can only be removed mechanically.

Coverage

This depends on the required consistency. The approximate coverage per pack at even consistency (1mm thickness) is as follows:

Coverage* (20kg + 10kg pack)	18 - 20m ²
Primer Coat La BrushSeal	8 - 10m ² /kg

* On primed surface using La BrushSeal

Packaging

Powder Component Part A : 20kg

Liquid Polymer Component Part B : 10kg

Shelf Life

The Powder component may be stored for upto 12months when contained in its original sealed packing.

The Liquid component may be conserved for upto 18months when contained in its original sealed packing.

Store FibreFlex XXL material in a dry place.

Health & Safety

La FibreFlex XXL system is non-toxic but alkaline in nature. Gloves and goggles should be worn while handling. Any splashes on the skin or eyes should be washed off with clean water. In the event of prolonged irritation, medical advice should be sought.

Important: La Greens India Pvt. Ltd., products are guaranteed against defective materials and are sold subject to its standard terms and conditions of sale. It is the Customer's responsibility to satisfy themselves by checking with the Company whether the information is still current at the time of use. The customer must be satisfied that the product is suitable for the use intended. All products comply with the properties shown on current Technical Literatures. However, La Greens India does not warranty or guarantee the installation of the products as it does not have any control over installation or end use of the product. All information and particularly the recommendation relating to application and end use are given in good faith.



Smart Solutions for Sustainable Construction

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