LA GREENS
Smart Solutions for Sustainable Construction

LA FibreFlex Xtra

Hi-Flexible Two-Component Cementitious Waterproofing System

Product Description

La FibreFlex Xtra is a two component Hi-Flexible waterproofing system based on cementitious binders reinforced with compatible micro fibres, special additives, fine-grained selected aggregates, high grade acrylic polymers to provide superior water protection which consists of La FibreFlex Xtra powder and La Bond Xtra.

La FibreFlex Xtra can simply be applied by stiff brush, roller or trowel to obtain the desired thickness. Also, it can be spray applied both on horizontal and vertical surface.

The hardened layer of La FibreFlex Xtra remains constantly flexible under all environmental conditions.

It has excellent bonding properties on all cementitious substrates as long as they are sound and sufficiently clean. Its high resistance to deteriorating effect of UV Rays, a principle characteristic of the product ensures the structures are protected and waterproofed even in extreme climatic conditions including saline-rich atmosphere and polluted Industrial areas.

Standard

Tested to ASTM D4541, ASTM D882, ASTM D 1653, ASTM D 570

Uses

La FibreFlex Xtra is an high performance elastomeric cementitious coating used for waterproofing and to protect atmospherically exposed reinforced concrete structures from attack by acid, gases, chloride ions, oxygen & water.

La FibreFlex Xtra remains constantly flexible under 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 reface 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, swimming pools, drainage culverts basements, terraces and roofs. The product provides a tough durable water resistant coating which can withstand light pedestrian traffic and also has excellent weather resistance for exterior applications.

Advantages

- Flexible and Fibre Reinforced to accommodate thermal movements
- Superior water impermeability
- Excellent barrier to carbon dioxide, chloride & sulphate ions
- Allows water vapour to escape from the structure
- Good resistance to the effect of long-term weathering, durable in all climate conditions including UV attack
- Non-toxic ideal for potable water tanks
- Elastic & accommodates thermal expansion of to concrete
- Excellent bond to concrete and masonry
- Excellent crack bridging ability

Technical Properties

	Comp A	Comp B
Consistency	Powder	Liquid
Color	Grey	White
Bulk Density (g/cm^3)	1.10±0.1	NIL
Density (g/cm^3)	NIL	1.02±0.1
Dry Solids Content (%)	100	40
Mixing Ratio	Comp A : Comp B = 2:1	
Application temp.	+ 5^{0}C to + 40^{0}C	
Pot Life	30mins @ 30^{0}C	
Performance of cured coating		
Bond Strength (N/mm^2) ASTM D 4541	2.0	
Elongation ASTM D 882	150%	
Static Crack bridging ability (mm)	> 2.0	
Water Absorption ASTM D 570	1%	
Tensile Strength (N/mm^2) ASTM D 882	0.82	
Water Vapour Permeability (gm./m^2/hrs) Test ASTM D 1653	1.3	
Shore 'A' Hardness	75	

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 Products.

LA FibreFlex Xtra | Hi-Flexible two-component Cementitious Waterproofing System

Priming
To further improve waterproofing and bonding properties on porous substrates, we recommend La BrushSeal, a penetrating water repelling acrylic primer. La BrushSeal which ensures proper adhesion of all brushable elastomeric membrane 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.

Application
In order to obtain the protective properties of La FibreFlex Xtra, 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.

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 Xtra using flat-bladed trowel to make sure that it is perfectly buttered. Apply second coat of La FibreFlex Xtra to cover the fabric and smooth over the surface using flat-bladed trowel.

The application of La FibreFlex Xtra should not be done if the temperature of the substrate is below 10^{0}C. When applying La FibreFlex Xtra on hot substrates i.e., over 30^{0}C surface temperature, saturate the surface with water. Apply La FibreFlex Xtra in 2 coats to achieve 1mm thickness. The second coat of La FibreFlex Xtra shall be applied as soon as the first coat has reached touch dry state. It is recommended that for general surfacing La FibreFlex Xtra 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 Xtra coating to properly cure and dry before covering with screed. Sprinkle coarse sand on wet surface of coating for better adhesion of screed. Average drying time is 4 to 6 hours at normal temperatures.

Mixing
La Bond Xtra concentrate should be poured into a suitable container. Mix the polymer concentrate thoroughly with a mechanical mixer using a 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 Xtra should be immediately used after mixing. Do not mix more material than can be used within the pot life.

Keep stirring La FibreFlex Xtra during the application.

No mixing of additional water is recommended.

Mixing Ratio

Components	Indl Pack	Bulk Pack
Part A : Powder	20kg	5kg x 2 nos
Part B : La Bond Xtra	10kg	20kg

Cleaning
La FibreFlex Xtra 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:

La FibreFlex Xtra	
Coverage* (20kg + 10kg pack)	18 -20m^2
* On primed surface using La BrushSeal	

La BrushSeal
Coverage - 10-12m^2/kg after diluting (1:3)

Packaging

Powder Component	: 20kg
Liquid Polymer Component	: 10kg & 20kg
La BrushSeal	: 5kg, 10kg & 20kg

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 Xtra material in a dry place.

Precautions & Limitations
FibreFlex Xtra system has a limited resistance to water Permeability. To provide effective protection to the building, when used on concrete surfaces, this system should be used in conjunction with La Greens range of Waterproofing Systems.

Health & Safety
FibreFlex Xtra 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.

Fire: La FibreFlex Xtra system is non-flammable

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