

# FIBELASTIC XTREME 11

Hydraulic mineral based microfiber reinforced 2 pack acryurethane class A 4 crack bridging coating

Product # 114.39

Version no: 02.10.24

Technical Data

**PRODUCT DESCRIPTION:** FIBELASTIC XTREME 11 is innovative product developed by Fibrex R&D laboratory after exploring numerous naturally occurring minerals for waterproofing. These technologies were used in age old construction techniques which has now be reinvented to make it suitable for modern construction applications. Inosilicate technology provide unique cement CSH matrix compatibility to coating thereby allowing excellent dual bonding properties to substrate and top coat while maintaining excellent film durability with highest class crack bridging capability of Class A4. The strengthening of coating with UreRubber Proprietary technology ensure long lasting protection throughout the life of structure.

## AREAS OF APPLICATION

- Channels, Dams, Water tanks
- Fish Farming Ponds
- Hydraulic Lines
- Swimming Pools, Balconies, Manholes
- Various Concrete Elements such as podium, deck slabs, planters, lift pits, basements etc.

## ADVANTAGE

- Practical and rapid application
- High Elongation >330%
- Applicable by brush, roller and spray
- Good impermeability to water
- Suitable for contact with drinking water
- Protects the surface from frost
- Good flexibility
- Adheres to different types of surfaces (concrete, brickwork, brick, gypsum board, plastic, metal, ceramic, polystyrene, wood, etc. must be previously tested on a sample area)
- Flexible up to -8°C.
- UV resistant
- Food Grade

## APPLICATION METHODOLOGY

### SURFACE PREPARATION

Verify the structure suitability for the hydrostatic loads; if intended to contain water, perform a preload test. Remove any dirt, oil, paint and any material or deposit that could compromise adhesion of FIBELASTIC XTREME 11 by pressure blasting, sandblasting or bush-hammering lightly. The surface that is to be treated must be solid and perfectly clean from cement slurry. Restore the surface with suitable Fibcrete SBR modified mortar if the surfaces are very uneven, have gravel nests or in the case of mixed masonry. If the surfaces are old and/or dusty or partially soaked with water, apply EVERSIL PRIMER (see the relative technical data sheets) with a roller, a brush or by spray, ensuring it does not bleed on the surface. For Wall to Wall, Floor to Wall, joints around pipe inserts use Fibflex Geomat Tape pasted with Fibelastix XTREME 11 to seal the joints. No Concrete Fillets are required with this system.

### PRIMING

If EVERSIL PRIMER has not been applied, wet the surfaces making sure no surface water is formed. Fibelastix XTREME 11 must be applied in two layers with a roller, brush or spatula.

## MIXING

Add b part (liquid) first into the bucket & scaling while stirring add PART(A) powder till the mix is smooth & consistent.

## APPLYING AND LAYING

Apply the first layer of Fibelastix XTREME 11 on the surface, approximately 0.5 mm thick (average consumption: 0.8 kg/m<sup>2</sup>), making sure the product penetrates well into the substrate, in order to obtain uniform coverage. If the roller/ brush tends to drag the product, do not add water, dampen the surface instead. The second layer, approximately 0.5 mm thick (average consumption: 0.8 kg/m<sup>2</sup>) must be applied after at least 6 hours. It is recommended to apply the second coat when the previous one is dry and hardened. The average thickness of approx. 1 mm must continue to be applied according to the previous layers in applications that require a thickness greater than the standard 1 mm. The elastic behavior in the case of crazing with dynamic behavior, in elevated pools and structures potentially subject to cracking, can be improved by applying a third coat (0.8 kg/ m<sup>2</sup>) and inserting the TVIS GEOMESH WET ON WET on the 2nd coat. Allow a curing phase of at least 24 hours. The curing times can be longer in the presence of a low temperature, high humidity or premature contact with water. When waterproofing structures intended to contain water, allow a curing phase of 5 days once the second layer is applied. It is also possible to complete the finish with Wallcryn or Silkos interior coatings. The product can be finished with Ceramic Tiles, depending on the intended use. Ceramics must be laid with a large grout gap and C2-type adhesive such as FIBSET 412(preferably with an S1 and S2 deformation class). The subsequent joint grouting should be done with a CG2 class sealant such as FIBSEAL JSE 700. In any case product should not be exposed to direct foot traffic and atleast 15-20 mm plaster or 3 mm thick coating of DASHCOAT (Refer Technical Data Sheet) must be provided.

## 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.

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## TECHNICAL SPECIFICATIONS

Characteristic	Performance Requirements EN 1504-2	Results
Consistency A:B		Powder :Liquid
Consistency Part A		Olive Green/Earthy Red/Cement grey
Consistency Part B		Milky liquid
Application Temperature		10° to 40 ° C
Consumption @ 1mm thickness		1.5 kg/sqm
Dilution		Dilution NIL
Pull Off Strength	> 0.8 MPa	>1.2 MPa
Crack Bridging	Class A1(0.1mm) to Class A5(2.5 mm)	Class A4(2.37mm)
Permeability to water Vapor	Class I	Class I
Impermeability to water	<0.1 kg/m2.h0.5	< 0.03 kg/m2.h0.5
Pot Life		60 minutes
Diffusion in equiv. air layer thickness	> 50m	> 50m
Adhesion in Chlorinated Water	>0.5	0.8
Mixing Ratio		1:1 ( by weight)
Elongation	ASTM D 412	250-333%
Tensile Strength(Reinforced)	ASTM D 412	>3.5 MPa
Shore A Hardness	ASTM D 2240	60
Water Vapour Transmission	ASTM E 96:2016	.63g/m2/hr

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.

## CHEMICAL RESISTANCE

Water	Pass
Vegetable Oil	Pass
Lube Oil	Pass
Diesel	Pass
Petrol	Pass
Kerosene	Pass
Xylene	Short Term
Milk	Pass

H SO (40%)	Short Term
HNO (10%)	Short Term
Citric Acid (15%)	Pass
Sodium Hydroxide (50%)	Pass
Salt	Pass
HCl (10%)	Short Term

All tests done for 7 days at 25° C. Short term means for few hours and should be regularly cleaned.

## LIMITATIONS

- Do not apply FIBELASTIC XTREME 11 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 XTREME 11 in those areas.
- Do not apply FIBELASTIC XTREME 11 to asphalt, weak or infirm concrete, unmodified sand-cement screeds, PVC tiles or sheets, or substrates known to move substantially e.g. steel walkways.
- Do not apply FIBELASTIC XTREME 11 over treated expansion joints.

## Please contact FIBREX for installation of floor coating over

- Oil / Fat rigged floors
- Floors with moisture content over 4 %
- Floors with rising moisture problem
- Asphalt based surface (interior)
- Floors with a pull off strength less than 1.5 N / mm<sup>2</sup>

## PACKAGING

FIBELASTIC XTREME 11 (20 KG SET)  
A part (Powder ) - 5 Kg bag(2 nos)  
B part (Liquid) - 5 Kg bucket (2 nos)  
20 kg set cover 13.33m<sup>2</sup> @1.5kg/m<sup>2</sup>/mm

## STORAGE

FIBELASTIC XTREME 11 has shelf life of 12 months if stored properly in original, unopened packing between +5°C to + 40°C 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.

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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

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.

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## 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.

## FIBREX OTHER PRODUCTS – WE DO

