

FIBELASTIC HYDRO

Ettringite mineral based acriurethanic 2K polymeric coating

Product # 114.120

Version no: 19.7.21

Technical Data

PRODUCT DESCRIPTION: FIBELASTIC HYDRO is elastomeric Ettringite mineral based internally crosslinked acriurethane modified Class A4 crack bridging, which can be simply applied by mixing a pre-packed dry-mix ettringite powder with a formulated flexible acriurethane admixture, and subsequent brushing the slurry. It protects a wide range of buildings and structural concrete components with excellent resistance to water, aggressive chemicals, long-term weathering and scratching. It is applicable for those structures subjected to long-term water immersion

AREAS OF APPLICATION

- Practical and rapid application
- Resistant to positive and negative hydrostatic pressure
- Applicable by brush, roller and spatula
- 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)

ADVANTAGE

- Channels, Dams, Water tanks
- Fish Farming Ponds
- Hydraulic Lines
- Swimming Pools, Balconies, Manholes
- Various Concrete Elements

APPLICATION GUIDELINES

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 Fibelastical Hydro 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 CROSSLINKER (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 Fibelastical Hydro to seal the joints. No Concrete Fillets are required with this system.

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

Apply the first layer of Fibelastical Hydro on the surface, approximately 0.5 mm thick (average consumption: 1 kg/m²), 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: 1 kg/m²) 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 (1 kg/ m²) 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.

When applied indoors, it is recommended to coat the walls with the TVIS series of texture finishes. 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. 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.

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TECHNICAL SPECIFICATIONS

Characteristic	Performance Requirements EN 1504-2	Results
Consistency A:B		Powder :Liquid
Colour A:B		Grey:Milky White
Application Temperature		10°C to 40 °C
Consumption @ 1mm thickness		2 kg/sqm
Dilution		NIL
Pull Off Strength	> 0.8 MPa	>2 MPa
Crack Bridging	Class A1 Class B1	Class A4 Class B2
Impermeability to water	<0.1 kg/m ² .h ^{0.5}	< 0.05 kg/m ² .h ^{0.5}
Pot Life		30 minutes
Resistance to Positive Hydrostatic pressure 140m	EN 12390	> 14 bar
Resistance to Negative Pressure	UNI 8298	> 5 bar
Mixing Ratio Powder:Liq.		1.5 : 1
Tensile Strength	ASTM D 412	> 2.5 MPa
Reaction to Fire	EN 13501	Class E
Compressive Strength	ASTM C 109	>25 MPa
Salt Spray Resistance	ASTM B 117	>300 hours

PACKAGING

Fibelastic Hydro is available in 30 kg and 15 kg pack size.

STORAGE

Fibelastic Hydro 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 to resin-based materials. 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.

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.

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FIBREX OTHER PRODUCTS – WE DO

