FIBELASTIC PLASTER 21

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

Product # 114.40
Version no: 16.11.23

Data Tech

PRODUCT DESCRIPTION: FIBELASTIC PLASTER 21 is elastomeric hydraulic mineral based internally cross-linked acriurethane modified microfibers reinforced Class A4 crack bridging, which can be simply applied by mixing a pre-packed dry-mix 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

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

ADVANTAGE

- 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)
- Flexible up to -5°C.

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 Plaster 21 by pressure blasting 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 Fibelastic Plaster 21 to seal the joints. No Concrete Fillets are required with this system.
If EVERSIL PRIMER has not been applied, wet the surfaces making sure no surface water is formed.

MIXING

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

APPLYING AND LAYING

Fibelastic Plaster 21 must be applied in two layers with a roller, brush or spatula. Apply the first layer of Fibelastic Plaster 21 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 FIBFLEX 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. 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.

FIBREX Construction Chemicals Pvt. Ltd.

FIBREX CONSTRUCTION CHEMICALS PVT. LTD.
Building No-2, Site No- 1, Lajwanti Complex, 3rd Floor, Near Pillar No-563 14/3
Mathura Road,Faridabad-121003,Phone: 0129-4081412
Email: sales@fibrexchem.com. Website: www.fibrexchem.com

FIBELASTIC PLASTER 21

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

Product # 114.40
Version no: 16.11.23

Data Tech

TECHNICAL SPECIFICATIONS

Characteristic	Performance Requirements EN 1504-2	Results
Consistency A:B		Powder :Liquid
Colour A:B		Grey:Milky White
Application Temperature		10℃ to 40 ℃
Consumption @ 1mm thickness		2 kg/sqm
Dilution		NIL
Solids		79-80%
Elongation		60-65%
Tensile Stength		>2 MPa
Pull Off Strength	> 0.8 MPa	>1 MPa
Crack Bridging	Class A1(0.1mm) to Class A5(2.5 mm)	Class A4(2.42mm)
Permeability to water Vapor	Class I	Class I
Impermeability to water	<0.1 kg/m².h0.5	< 0.05 kg/m².h0.5
Pot Life		30 minutes
Potable water contact 21 CFR 175-300 US-FDA	<50 ppm	< 37.5 ppm
Resistance to Hydrostatic pressure	EN 12390	5 bar
Resistance to Negative Pressure	UNI 8298	2.5 bar

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
Citric Acid (15%)	Pass
Sodium Hydroxide (50%)	Pass
Salt	Pass
HCl (10%)	Short Term
H SO (40%)	Short Term
HNO (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 PLASTER 21 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 PLASTER 21 in those areas.
- Do not apply FIBELASTIC PLASTER 21 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 PLASTER 21 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 floor (interior)
- Floors with a pull off strength less than 1.5 N / mm²

PACKAGING

FIBELASTIC PLASTER 21 (15.5 KG SET)
A part (Powder) - 10.334 Kg bag
B part (Liquid) - 5.166 Kg can
15.5 kg set cover 7.75m² @2kg/m²/mm

STORAGE

FIBELASTIC PLASTER 21
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, 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.

FIBREX CONSTRUCTION CHEMICALS PVT. LTD.
Building No-2, Site No- 1, Lajwanti Complex, 3rd Floor, Near Pillar No-563 14/3
Mathura Road,Faridabad-121003,Phone: 0129-4081412
Email: sales@fibrexchem.com. Website: www.fibrexchem.com

FIBELASTIC PLASTER 21

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

Product # 114.40
Version no: 16.11.23

Data Tech

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 pvt. ltd. 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 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

FIBREX Construction Chemicals Pvt. Ltd.

FIBREX CONSTRUCTION CHEMICALS PVT. LTD.
Building No-2, Site No- 1, Lajwanti Complex, 3rd Floor, Near Pillar No-563 14/3
Mathura Road,Faridabad-121003,Phone: 0129-4081412
Email: sales@fibrexchem.com. Website: www.fibrexchem.com