

FloroBuild XT Steel Reinforced Epoxy Mortar FOR EXTREME CONDITIONS

Product Description:

FloroBuild XT is an extremely tough epoxy mortar used for resurfacing or levelling deteriorated or spalled concrete. Its proprietary fillers, which contain several gradations of steel, result in optimum abrasion and wear performance. This makes for a tougher surface which can absorb and dissipate shock from impact. It provides a non-porous, sanitary, slip resistant surface that easily tolerates the harsh environments found in industrial settings. FloroBuild XT is available natural or in 12 standard colours.

Typical Uses, Applications:

Ideally suited for commercial, industrial and institutional applications which have:

- Solid Waste Transfer Facilities
- Loading Docks
- Dumpster Pads
- Heavy engineering facilities
- Foundries
- Bottling & canning plants
- Breweries & wineries

Product Advantages:

- Superior compressive strength & wear resistance
- Excellent impact resistance and hardness
- Seamless sanitary floor and coving
- A variety of colours can be achieved with the addition of Florock 100% Solids Colourants.

Cured Physical Properties		
Property	Test Method	Results
Compressive Strength	ASTM C579	98 N/mm ²
Tensile Strength	ASTM D2370	50 N/mm ²
Flexural Strength	ASTM D790	31.7 N/mm ²
Flexural Modulus of Elasticity	ASTM C580	13,800 N/mm ²
Indentation	MIL-D-3134F	No Indentation
Impact Resistance	ASTM D4226	>1,800 mm/kg
Shore Hardness	ASTM D2240	90
Water Absorption	ASTM C413	0.2%
Bond Strength (concrete failure)	ACI Comm. #503 pg 1139-41	>3 N/mm ²
Abrasion Resistance, Taber Abrader CS 17 Wheel, 1000 gm load, 1000 cycles	ASTM D4060	30 mg loss
Heat Resistance Limitation	Continuous Exposure	60° C
Coefficient of Friction	ASTM D2047	0.6 minimum
Flammability	ASTM D635	Self -Extinguishing
Thermal Coefficient of Linear Expansion	ASTM C531	1.5x10 ⁻² mm/M ° C

Packaging:

FloroBuild XT comes in a multi-component neutral kit. Optional colourant is sold separately. Each kit will cover 23m² at a nominal 6mm thickness.

- Epoxy Part A – 22.7 litres
- Activator Part B – 11.4 litres
- FloroBuild PT Aggregate - 68 kgs
- Medium, Steel Filler – 45 kgs
- Fine, Steel Filler – 23 kgs

Storage:

All containers should be stored at 7° C to 35° C, kept tightly sealed and out of direct sunlight.

Coverage:

Each kit will cover 23m² at a nominal 6mm thickness.

1. Surface Preparation:

New concrete must have a 28 day cure, and preferably a broom swept finish, prior to coating. In the case of older concrete flooring, remove all surface oils, paint, dust and debris. Prior to coating, make sure the surface is clean, passes the Moisture Vapour Transmission (MVT) test and the water drop test and that all surface defects have been repaired. Refer to the Florock "Preparation of Concrete" datasheet for more information on preparation and MVT before proceeding.

Expansion Joints:

All expansion joints should be cut and filled with FloroFlex System 6500 JS following installation of the FloroBuild XT.

Note: Floropoxy should not be applied when the floor temperature is above 32° C or below 13° C, or when within 3° C of the dew point.

2. Primer Application:

Once surface preparation is complete, apply Floropoxy system 4700 or 3700 primer to the concrete floor. Allow primer to become tacky before proceeding. See Primer Technical data sheet for details. For clean prepared surfaces with no moisture vapour transmission (MVT) issues, use Floropoxy 4700 primer. If the surface contains residue oil or has MVT issues, contact your Florock Representative to discuss double priming with Floropoxy system 3700.

Note: The cure time will vary with conditions. Allow a minimum of 6 hours and a maximum of 24 hours.

Blended Components	
Blended Solids	100%
Floor and Air Temp. Limitations	13°-32° C
Recommended Clean-up Solvent	S-41 Florobase Thinner
VOC	0

Working Time & Recoat Time Table		
Temperature	Working Time	Recoat Time
13° C	25 min.	12 hr
21° C	15 min.	8 hr
32° C	10 min.	6 hr

Set Time Table		
Temperature	Foot	Full Vehicle
13° C	12 hr	20 hr
21° C	8 hr	12 hr
32° C	6 hr	8 hr

3. Mortar Mixing:

Turn on the mortar mixer and pour in the 22.7 litres of epoxy, and then the 11.4 litres of the Activator. Immediately add the PT aggregates, medium steel filler and fine steel filler. Mix this batch for 3 minutes and transfer mortar into a wheel barrel for immediate transfer to floor.

4. Mortar Application:

Spread with a rake or screed box and then power trowel. The first pass of the power trowel will compact the material and will remove any voids and make the floor smooth and dense. Adjust the power trowel blades to a lower setting and make a second pass to finish and close the floor. Excessive power troweling in the first or second pass will cause blisters.

FloroBuild XT Steel Reinforced Epoxy Mortar FOR EXTREME CONDITIONS

FloroBuild XT has a very wet consistency. Finishing areas inaccessible to a power trowel is achieved using light, feathering strokes with a hand trowel to smooth the surface. Trowel the material to the desired thickness and then allow it to set for 5-10 minutes. Lightly mist-spray the surface with Florock Trowel Lube or with water, and using a clean trowel, re-trowel the material to a smooth, dense finish.

5. Apply Top Coat:

When the FloroBuild XT has cured, the surface should be lightly ground or sanded to remove any burrs or surface defects. The FloroBuild XT may be left natural or top coated with Floropoxy system 4805, 4860, or 4865, Florothane system CR250 or FloroWear system 7100 finishes.

Maintenance:

Sweep away dust and debris with a broom. Clean on a regular basis with a surfactant type mild detergent. Florock floors never need to be waxed.

Disclaimer:

All statements and recommendations are based on experience we believe to be reliable. The use or the application of these products being beyond the control of the Seller or Manufacturer, neither the Seller nor Manufacturer make any warranty, expressed or implied, as to results or hazard from its use. The suitability, risk and liability of a product for an intended use shall be solely up to the User.

