

FloroBuild XT

Epoxy/Steel Aggregate Blend Troweled Mortar

Product Description: FloroBuild XT is an extra tough epoxy mortar used for resurfacing or leveling deteriorated or spalled concrete. Its proprietary fillers, which contain several grades of steel, provide exceptional abrasion and wear performance in extreme environments. This hard working surface absorbs and dissipates shock from high impact and helps safeguard concrete slabs subjected to heavy use and harsh treatment.

Typical Uses, Applications: Ideal for commercial, industrial and institutional applications, such as:

- Manufacturing plants
- Warehouses and logistics operations
- Detention and public safety buildings
- Solid waste transfer facilities
- Loading docks
- Dumpster pads

Product Advantages:

- Repairs and resurfaces damaged concrete
- Outstanding compressive strength
- Excellent impact and abrasion resistance
- Heavy duty and very durable
- USDA, FDA, EPA, OSHA and ADA compliant
- Can contribute to LEED Green Building Credits
- Tintable with Florock Colorants

Packaging:

- FloroPoxy 47 Series Primer –
 - 4 Gal OverPack
 - 20 Gal Pail Set
 - 220 Gal Drum Set
- FloroBuild XT Binder Resin Kit (M0-102CS) –
 - 3 Gallon kit (2:1) in Neutral
 - Optional Florock Colorant, sold separately, may be used to tint the Neutral resin
- FloroBuild XT Aggregate for Each Resin Kit –
 - 150 lbs. (3 Bags) FloroBuild PT Aggregate
 - 150 lbs. (3 bags) Sharp Silica Blend
 - 100 lbs. (2 bags) Medium Steel Filler
 - 50 lbs. (1 bag) Fine Steel Filler
- Optional Topcoat –
 - Choice of finishes available; consult Florock Representative for best options

Cured Physical Properties		
Property	Test Method	Results
Compressive Strength	ASTM C579	14,200 psi
Tensile Strength	ASTM C307	7,300 psi
Flexural Strength	ASTM C580	4,600 psi
Flexural Modulus of Elasticity	ASTM C580	2.0x10E6 psi
Indentation	MIL-D-3134F	No Indentation
Impact Resistance	ASTM D2794	>160 in/lbs
Shore D Hardness	ASTM D2240	90
Water Absorption	ASTM C413	0.2%
Bond Strength	ACI Comm. #503 Pg. 1139-41	>400 psi
Abrasion Resistance CS-17 Wheel, 1,000 gm load,	ASTM D4060	38 mg
Heat Resistance Limitation	Continuous Exposure	140°F/60°C
Coefficient of Friction	ASTM F1679 ASTM F2508	0.84 (dry) 0.68 (wet)
Flammability	ASTM D635	Self-Extinguishing
Thermal Coefficient of Linear Expansion	ASTM C531	1.8 x 10E-5 in/in/°C

Storage: All containers should be stored at 40°F to 95°F, be kept tightly sealed and out of direct sunlight.

Coverage: Each kit covers 260 SF at a nominal 1/4" thickness.

Note: FloroPoxy should not be applied when floor temperature is above 90°F or below 55°F, or when within 5°F of the dew point.

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 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: Cut and fill all expansion joints Florock Elastomer 6500 after applying FloroBuild XT.

Primer Application: Once surface preparation is complete, apply FloroPoxy 47-Series primer to the concrete floor. In a clean, dry container, blend 3 parts by volume of component A and 1 part by volume of component B. Mix thoroughly for 3 to 5 minutes, using a low speed mechanical mixer. Transfer the mixture from the batch container to a transport container, remix and pour entire mix from the transport container onto floor immediately. Retaining mixture in the bucket will shorten pot life. Using a 1/8" V-notched squeegee, spread at an approximate rate of 160 SF/gallon and then backroll with a 3/8" nap roller immediately after spreading, taking care to not leave puddles. The matrix may be applied to the wet primer. If allowing primer to cure before application of the matrix, broadcast a heavy seed.

Note: Cure times vary with conditions. Allow a minimum of 4 hours and a maximum of 24 hours before next step.

FloroBuild XT Mortar Mixing: Turn on the mortar mixer and pour in the 6 gallons of epoxy Part A, and then the 3 gallons of the Activator Part B. Immediately add 3 bags of PT aggregate, 3 bags of sharp silica aggregate, 2 bags of medium steel filler and 1 bag of fine steel filler. Mix this batch for 3 minutes and transfer mortar into a wheel barrel for transport to the floor.

Note: If pigmenting the Trowel Matrix, add colorant to the liquids before mixing with aggregate.

Power Trowel 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. This makes 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. Avoid excessive power troweling or overworking in the first or second pass, as this can cause blisters.

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 smoothen the surface. Trowel the material to the desired thickness. Allow matrix to set for 5-10 minutes. Then, lightly mist-spray the surface with water or Trowel Lube and, using a clean trowel, re-trowel the material to a smooth, dense finish.

Working and Recoat Times		
Temperature	Working Time	Recoat Time
55°F	25 minutes	12 hours
70°F	15 minutes	8 hours
90°F	10 minutes	6 hours
Blended Components		
Blended Solids		100%
Floor and Air Temp. Limitations		55°F-90°F
Recommended Clean-up Solvent		Xylene
VOC		0 gpl
Set Times		
Temperature	Foot	Full Vehicle
55°F	12 hours	20 hours
70°F	8 hours	12 hours
90°F	6 hours	8 hours

**Pot Life will be shorter with warmer slab, material temperatures.
**Cooler temperatures require longer cure time. Film thickness affects cure time.*

Once the FloroBuild XT mortar has cured, the surface should be lightly ground or sanded to remove any burrs or surface defects. The floor may then be opened to traffic.

Optional Topcoat: The FloroBuild XT matrix may be finished using a range of Florock High Performance Coatings and slip-resistance options. Please consult with your local Florock Specialist for details.

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.

Please read Safety Data Sheets before using products.

DISCLAIMER:

All statements and recommendations above are based on experience we believe to be reliable. The use or application of these products being beyond the control of the Seller or Manufacturer, neither 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.