T E C H N I C A L D A T A

SpecPoxy 1000 FS

GreenConscious

Fast Setting ASTM 881 compliant hi-mod, low-viscosity epoxy primer adhesive

DESCRIPTION

SpecPoxy 1000 FS is a fast-setting two-component, low-viscosity, moisture insensitive, high modulus, structural epoxy bonding adhesive and crack injection resin. SpecPoxy 1000 FS is 100% solids, solvent-free, low odor, and high strength.

- Bonding overlays, concrete, steel and wood
- Gravity feed or pressure injection crack repairs
- VOC content = 0 grams per liter

APPLICATION

Mixing Instructions: Air, material, and surface temperatures must be a minimum of 40°F prior to mixing or installation. To assist with mixing and dispensing, precondition material to 75°F. For bulk applications, mix two parts of component A and one part of component B by volume for three minutes with a low speed drill motor using a Jiffy mixer or paddle. Mix only as much material as can be used within the pot life. For cartridges, the resin and hardener are uniformly dispensed and mixed simultaneously through a mixing nozzle.

Surface Preparation: Surfaces to be bonded must be clean and structurally sound. Remove all oil, grease, dirt, laitance, curing compounds, and any other foreign matter by sandblasting, mechanical abrasion or oil free compressed air. For pressure injection, prepare the surface adjacent to the cracks to expose clean, sound concrete.

Crack Injection: Injection ports should be fastened to the surface of the concrete using SpecPoxy 3000 FS. The injection ports should be spaced approximately 6" to 24" apart depending upon the crack width and the thickness of the concrete. The surface of the crack should also be sealed using the SpecPoxy 3000 FS overlapping the crack approximately 1-1/2" on both sides. After the ports and crack surface have cured, inject SpecPoxy 1000 FSwith pressurized dispensing equipment or use cartridges.

Bonding Agent: As a structural adhesive, apply the SpecPoxy 1000 FS neat and work into the substrate with a brush or broom at the rate of 80 sq ft per gallon, or approximately 20 mils in thickness.. **While tacky, place the fresh concrete**. If the SPECPOXY 1000 FS is no longer tacky, remove any surface dirt or contaminates and apply another coat of SpecPoxy 1000 FS.

Overlay bonding: Prime all surfaces with **SpecPoxy 1000 FS** at approximately 100 sq. ft. per gallon. Apply with a notched squeegee, broom, or roller to assure complete coverage. Coverage will depend upon the condition and texture of the surface. While the epoxy is still wet (max. 10 min.) broadcast a course dry sand (16/40 gradation) to the point of refusal (approximately 1 lb. of dry sand per sq-ft) Allow to dry a minimum of 2.5 hours @ 70ºF and remove any loose sand with a broom and vacuum before applying the SpecChem Overlay or topping.

CLEANING

Tools and Equipment: Uncured material can be removed with SpecChem Citrus Cleaner or other approved solvent. Dispose of in accordance with local, state, and federal disposal regulations. Mechanical removal is necessary for cured material.

STANDARDS

SpecPoxy 1000 FS meets ASTM C881 & AASHTO M 235, Type I, II, IV, and V Grade 1, Classes B & C.

PACKAGING

1 gallon units; 3 gallon units; 15 gallon units; 15 oz. dual cartridge

TYPICAL PROPERTIES

Mix Ratio	2 to 1
Mixed Color:	Gray
Viscosity:	1300 CPS
Gel time (ASTM 88I):	15 minutes
Tack free time @ 70°F:	40 minutes

Foot Traffic when sanded is 2.5 hours
Overlayment can be placed as early as 2.5 hours @ 70ºF

TYPICAL CURED PROPERTIES

Initial Cure	3 hours
Final Cure	48 hours
Compressive Strength (3 hrs) ASTM D695	10,000 psi
Compressive Strength (ASTM D695)	13,000 psi
Compressive Modulus (ASTM D695)	335,500 psi
Bond Strength at 2 days (ASTM 882)	2,425 psi
Bond Strength at 14 days (ASTM 882)	3,250 psi
Elongation (ASTM D638)	1.1 %
Tensile Strength (ASTM D638)	7,195 psi
Water Absorption (ASTM D570)	< 0.5%
Heat Deflection (ASTM D648)	124°F

SpecChem
Solution to Service

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SHELF LIFE

Store SpecPoxy 1000 FS in its original containers and keep tightly closed. Do not allow the accumulation of water, dirt, or other contaminants. The shelf life of properly stored SpecPoxy 1000 FS is two years from date of manufacture.

LIMITATIONS

Always test a small amount of SpecPoxy 1000 FS to verify that the product has been thoroughly mixed and will harden properly before proceeding.
Do not thin with any solvent.
Surface and air temperatures must be a minimum of 40°F for application. Protect from freezing.

PRECAUTIONS

Prolonged or repeated skin or eye contact may cause irritation. Use safety glasses and wear protective rubber gloves. If skin contact occurs, wash immediately with soap and water and seek medical help if needed. If eye contact occurs, flush immediately with water and seek medical help if needed. In case of ingestion, call a physician. Product is a sensitizer. Avoid breathing vapors.

INDUSTRIAL USE ONLY

Additional precautions, safety and first aid information are contained in the (SDS) Safety Data Sheet.

WARRANTY

NOTICE-READ CAREFULLY
CONDITIONS OF SALE
SpecChem offers this product for sale subject to and limited by the warranty which may only be varied by written agreement of a duly authorized corporate officer of SpecChem. No other representative of or for SpecChem is authorized to grant any warranty or to waive limitation of liability set forth below.
WARRANTY LIMITATION
SpecChem warrants this product to be free of manufacturing defects. If the product when purchased was defective and was within use period indicated on container or carton, when used, SpecChem will replace the defective product with new product without charge to the purchaser. SpecChem makes no other warranty, either expressed or implied, concerning this product. There is no warranty of merchantability. NO CLAIM OF ANY KIND SHALL BE GREATER THAN THE PURCHASE PRICE OF THE PRODUCT IN RESPECT OF WHICH DAMAGES ARE CLAIMED.
INHERENT RISK
Purchaser assumes all risk associated with the use or application of the product.

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