



SHEP POXY HI MOD FAST GEL

RAPID SETTING, HIGH STRENGTH, EPOXY ADHESIVE BINDER

DESCRIPTION

Shep Poxy Hi Mod Fast Gel system is a two part, 100% solids, moisture insensitive adhesive and binder for numerous application needs. This high modulus material is available in a gel consistency. Shep Poxy Hi Mod Fast Gel products are high strength, extremely fast setting (even in a thin film) adhesives and can be used at temperatures as low as 35°F (2°C).

PRIMARY APPLICATIONS

- Fast turn-around epoxy injection
- Concrete adhesive
- Anchor bolt grouting
- Sealing cracks
- Priming & sealing
- Bonding toppings
- Concrete repair
- Coating

TECHNICAL DATA

Material Properties @75°F (24°C) Data presented are typical laboratory values

Tensile strength (ASTM D638) 7 day, psi (MPa)	>7,000 (48.3)
Tensile elongation	2 to 4 %
Compressive strength (ASTM D695) 7 day, psi (MPa)	>10,000 (69.4)
Compressive modulus, psi (MPa)	>300,000 (2,068)
Bond strength hardened to hardened (ASTM C 882) 2 day, psi (MPa)	>2,800 (19.3)
Total water absorption (ASTM D570) 7 day, 2 hr. boil	0.4 %
Viscosity: mixed, cps	80K - 200K
Gel time	6 to 8 min
Thin film set	(20 mils - 1.5 to 2 hrs) {1/8" (0.19 mm) - 1 hr}
Appearance: Part A & B mixed	Concrete Gray

Pull-out load testing (Tested in accordance to ASTM E 488)

Rebar Size	Reinforcing Steel			Anchor Diameter	Threaded Rod		
	Hole Diameter	Embedment Depth	lbs.		Hole Diameter	Embedment Depth	Load lbs.
#4 - 1/2"	5/8"	4.5"	14,200	1/2"	3/4"	5"	9,200
#4 - 1/2"	5/8"	5.3"	21,900	3/4"	1"	7.5"	46,000
#6 - 3/4"	7/8"	5.6"	31,100	1"	1-1/8"	9.75"	76,700
#6 - 3/4"	7/8"	7.5"	46,600	1"	1-1/4"	11"	77,600
#8 - 1"	1-1/8"	9"	55,900				
#8 - 1"	1-1/8"	10"	83,900				

FEATURES & BENEFITS

- Abrasion and chemical resistant coating
- Extend with aggregate for epoxy mortar
- High early strengths at normal and low ambient temperatures
- Excellent adhesive for bonding together concrete, steel, ceramic or wood materials
- Can contribute to LEED points.

COMPLIANCES

- ASTM C 881, Type I and IV, AASHTO 235
- Available for USDA approval in inspected facilities
- ACI Specifications 503.1, 503.2, 503.3, and 503.4

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PRODUCT INFORMATION ■ TECHNICAL DATA SHEET

Continued on reverse side

DIRECTIONS FOR USE

Surface Preparation: Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and free of dust, dirt, paint, efflorescence, oil and all other contaminants. Mechanically abrade the surface. Properly clean profiled area.

- **Priming:** Clean and prime exposed steel using a spray or brush coat of anti-corrosion coating.
- **Mixing: Cartridge Units:** Shake cartridge vigorously before using. Place cartridge in dispenser. Remove shipping cap and plugs. Dispense small amount until an even flow out of both sides occurs. Attach static mixing nozzle and dispense. Be sure not to tilt cartridge upwards, so that mixed epoxy flows back into tube. After dispensing, remove nozzle and properly dispose of, clean off threaded end of cartridge and replace shipping cap.
- **Bulk Units:** Using a low speed drill motor and a “jiffy” type paddle, premix parts A and B separately for about a minute. Combine 1 part A with 1 part B and mix well for 3 minutes until there is no streaking in the mix. If aggregate is to be added, do so immediately and blend until consistent. Apply immediately.

Application: Temperatures for Shep Poxy Hi Mod Fast Gel must be at least 35°F (2°C) and rising. **Anchor Bolt Grouting:** Before grouting, the anchor bolt must be clean & free of all debris. Prime the hole with neat Shep Poxy Hi Mod Fast Gel and allow 5 minutes at 75°F (24°C) for the material to penetrate and seal the walls of the hole. Fill the hole with enough material so that when the bolt is inserted excess material will come to the surface. Push the bolt into the hole using a twisting motion to ensure there are no air voids in the hole.

Clean-Up: Clean tools and equipment immediately following use with methyl ethyl ketone or acetone. Clean drips and over spray while still wet with the same solvent. Dried epoxy materials require mechanical abrasion for removal.

PACKAGING

10 oz (300 mL) single cartridges

ESTIMATED COVERAGE

10 oz (300 mL)	17 in ³ (.28 L)
Application ft ² /gal (m ² /L)*	
Bonding Toppings	55 to 70 (1.3 to 1.7)
Repair Mortars 1/4" (6.4 mm)	12 to 16 (.29 to .39)

SHELF LIFE

Two years in original, unopened container.

PRECAUTIONS

- Do not apply at temperatures below 35°F (2°C).
- Do not thin with any foreign material. Do not aerate materials during mixing.
- For critical grouting applications, the concrete should be cured a minimum of 28 days.
- Store between 50°F to 90°F (10°C to 32°C).
- Protect from moisture.
- In all cases, consult the MSDS before use.

LIMITED WARRANTY: NOTICE - READ CAREFULLY. CONDITIONS OF SALE. Manufacturer offers this product for sale subject to, and Buyer and all users are deemed to have accepted, the following conditions of sale and limited warranty which may be varied by written agreement of a duly authorized corporate officer of Manufacturer. No other representative of or for Manufacturer is authorized to grant any warranty or to waive limitation of liability set forth below.

Warranty Limitation: Manufacturer 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, Manufacturer will replace the defective product with new product without charge to the purchaser. Manufacturer makes NO OTHER WARRANTY, either expressed or implied, concerning this product. There is NO WARRANTY OF MERCHANTABILITY. In no case shall Manufacturer be liable for special, indirect or consequential damages resulting from the use or handling of the product, and no claim of any kind shall be greater in amount than the purchase price of the product in respect of which damages are claimed.

Inherent Risk: MANUFACTURER MAKES NO WARRANTY TO THE PERFORMANCE OF THE PRODUCT AFTER IT IS APPLIED BY THE PURCHASER, AND PURCHASER ASSUMES ALL RISKS ASSOCIATED WITH THE USE OR APPLICATION OF THE PRODUCT.