

# SPECPOXY 1000



ASTM 881 compliant hi-mod, low-viscosity epoxy bonding adhesive

## DESCRIPTION

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

- Bonding concrete, steel and wood
- Gravity feed or pressure injection crack repairs
- Anchoring bolts, dowels and reinforcing bar
- 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 with pressurized dispensing equipment or use cartridges.

**Bonding Agent:** As a structural adhesive, apply the SPECPOXY 1000 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 is no longer tacky, remove any surface dirt or contaminants and apply another coat of SpecPoxy 1000.

**Overlay bonding:** Prime all surfaces with **SpecPoxy 1000** 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. 30min.) 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 12 hours 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 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:	700 CPS
Gel time (ASTM 881):	55 minutes
Tack free time @ 70°F:	3.5 hours
<b>TYPICAL CURED PROPERTIES</b>	
Initial Cure	24 hours
Final Cure	7 days
Compressive Strength (ASTM D695)	11,500 psi
Compressive Modulus (ASTM D695)	325,500 psi
Bond Strength at 2 days (ASTM 882)	2,350 psi
Bond Strength at 14 days (ASTM 882)	3,150 psi
Elongation (ASTM D638)	1.8 %
Tensile Strength (ASTM D638)	7,195 psi
Water Absorption (ASTM D570)	< 0.5%
Heat Deflection (ASTM D648)	122°F



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## SHELF LIFE

Store SPECPOXY 1000 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 is two years from date of manufacture.

## LIMITATIONS

Always test a small amount of SPECPOXY 1000 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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