

# SPECPOXY BINDER

ASTM 881 compliant low-mod, epoxy binder / adhesive



## DESCRIPTION

SPECPOXY BINDER is a two-component, multi-purpose, low modulus, moisture tolerant epoxy binder adhesive that meets the requirements of ASTM C881.

SPECPOXY BINDER can also be used as a multilayer, waterproof, skid resistant polymer overlay system for bridges and parking decks. This solvent-free, low viscosity binder provides:

- Low modulus, high-strength adhesive meeting ASTM C881 requirements
- Moisture tolerant
- More flexible to sustain movement due to thermal changes
- Impermeable waterproof/skid resistant surfaces
- Shock absorbing ability
- Easy blending of aggregates for mortar repairs

## APPLICATION

**Mixing Instructions:** ready-to-use, do not thin with any solvents. Air, material and surface temperatures must be a minimum of 40° F (4° C) prior to mixing or installation. Premix each component separately, then mix 1 part of Part A with 1 Part B 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.

**Surface Preparation:** Surfaces to be bonded must be clean and structurally sound. Remove all oil, grease, dirt, laitance, curing compounds, and any other foreign material that may cause a problem with bond. Optimum adhesion will be achieved by creating an open profiled/roughened surface similar to sand paper. Shotblasting or mechanical methods are recommended. Thoroughly vacuum up any remaining dust or debris prior to installation.

**Epoxy Mortar:** For epoxy mortar, slowly add from 3.5 - 5 parts clean dry silica sand to 1 part of mixed SPECPOXY BINDER and mix thoroughly, completely wetting out and encapsulating all of the sand with epoxy resin.

For mortar overlays and patching, first clean and prime the prepared substrate with neat SPECPOXY BINDER. Then apply the epoxy mortar by trowel or a vibrating screed while the primer is still tacky.

For broadcast overlays, apply the neat SPECPOXY BINDER with a 3/16" (5mm) notched squeegee. (approx 75-100 sq-ft per gal) Then broadcast clean, dry aggregate after the SPECPOXY BINDER has leveled out. A silica sand of 20-40 gradation is recommended for the broadcast aggregate.

Apply the aggregate according to the specification or at a rate of 2 pounds per square foot (9.8 kg/m<sup>2</sup>), or to the point of rejection.

## APPLICATION (cont)

After the SPECPOXY BINDER has cured hard, remove the excess aggregate and apply either a second application or a seal coat, if required.

## PACKAGING

SPECPOXY BINDER is available in 1 gallon units; 2 gallon units; 10 gallon units

## STANDARDS/COMPLIANCE

SPECPOXY BINDER complies with the requirements of ASTM C 881 & AASHTO M 235 Type III, Grade 1 Class B & C

## TYPICAL PROPERTIES

Mix Ratio	1 to 1
Mixed Color:	Gray
Viscosity:	2900 cps
Gel time (ASTM 881):	45 minutes
Tack-free (70F)	3.5 hours

### TYPICAL CURED PROPERTIES

Initial Cure	24 hours
Final Cure	7 days
Compressive Strength (ASTM D695)	7,500 psi
Bond Strength at 14 days (ASTM 882)	2,750 psi
Elongation @ Break (ASTM D638)	10%
Water Absorption (ASTM D570)	< 0.5%

## SHELF LIFE

Store SPECPOXY BINDER in the original tightly closed containers. The shelf life of properly stored product is two years from date of manufacture.



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## LIMITATIONS/PRECAUTIONS

If the applied epoxy is no longer tacky during bonding operations, reapplication is allowed after removal of surface contaminants. Do not thin with any solvents. Surface, ambient air, and material temperatures must be 40° F (4° C) or above. Do not expose uncured product to cold or freezing temperatures below 35°F (1°C) or over 90°F (32°C) for any length of time. Epoxies may yellow, discolor, or chalk upon exposure to strong sources of Ultra-Violet radiation such as from sunlight, and some types of industrial artificial lighting

High temperatures will accelerate the setting time, and cool temperatures will slow down the setting time. As a general rule, the gel time of the epoxy will be cut in half for each 10°-15° increase in temperature above 75°F (24°C).

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