

SPECPOXY 2000



ASTM 881 compliant hi-mod, medium viscosity epoxy

DESCRIPTION

SPECPOXY 2000 is a two-component, multi-purpose, high modulus, moisture tolerant epoxy bonding adhesive that meets the requirements of ASTM C881, Type I, II, IV & V grade 2, classes B&C. This 100% solids, solvent-free, medium viscosity bonder:

- Bonds fresh concrete to hardened concrete.
- Bonds steel to fresh concrete.
- Anchors bolts, dowels, and reinforcing steel.
- Gravity filling cracks in concrete.
- VOC Content = 0 grams per liter

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. Abrasive blast cleaning and mechanical removal methods are recommended. All drilled holes must be cleaned out with a cylindrical bristle brush removing all dust and loose material. Use clean, oil free compressed air to blow out any remaining dust or debris prior to installation.

Bonding : As a structural adhesive, and bonding fresh concrete to hardened concrete, neatly apply the SPECPOXY 2000 into the substrate with a brush, roller, or by spraying, SPECPOXY 2000 should be applied at the rate of 80 sq ft per gallon, or approximately 20 mils in thickness. While tacky, place the fresh concrete. If the SPECPOXY 2000 is no longer tacky, remove any surface dirt or contaminates and apply another coat of product.

Anchoring – For use in anchoring dowels, bolts, reinforcing steel, etc. the depth of the hole should be approximately 9-15 times the bolt diameter. To provide optimum pull-out, the hole space (annulus) around the bolt in the hole should not exceed 1/8". The annulus should not exceed 1/4" without aggregate extension. Always dispense the SPECPOXY 2000 into the anchoring hole filling from the bottom of the hole up. Insert the bolt, or dowel by turning it slowly during insertion. After insertion, the hole should be completely filled with epoxy and devoid of all air pockets or voids.

To produce a mortar for patching repairs, mix 1 to 4 parts by volume clean dry well graded silica sand to 1 part by volume of the mixed SPECPOXY 2000 . Mix thoroughly until all of the sand is completely wet and evenly dispersed. First, apply a prime coat over the area to be repaired with the neat mixed epoxy. Place the mortar, working it well into the surface of the concrete before the prime coat becomes tack free. Lifts should not exceed 1" in thickness.

STANDARDS

SPECPOXY 2000 meets ASTM C881 & AASHTO M 235, Type I, II, IV, and V Grade 2, Classes B & C.

SHELF LIFE

Store SPECPOXY 2000 in the original tightly closed containers. The shelf life of properly stored product is two years from date of manufacture.

LIMITATIONS

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.

TYPICAL PROPERTIES

Mix Ratio	1 to 1
Mixed Color:	Gray
Viscosity:	9800 CPS
Gel time (ASTM 881):	55 minutes
Tack free time @ 70°F:	3.5 hours

TYPICAL CURED PROPERTIES

Initial Cure	24 hours
Final Cure	7 days
Compressive Strength (ASTM D695)	10,250 psi
Compressive Modulus (ASTM D695)	450,400 psi
Bond Strength at 2 days (ASTM 882)	1,790 psi
Bond Strength at 14 days (ASTM 882)	3,220 psi
Elongation (ASTM D638)	1.9%
Tensile Strength (ASTM D638)	7,050 psi
Water Absorption (ASTM D570)	< 0.15%
Heat Deflection (ASTM C648)	135°F
Direct Tensile Pullout (ASTM E 488) 1 part epoxy with 1 part sand by volume (1" dowel x 2.5" hole x 3.5" imbed)	20,990 lbs



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PACKAGING

1 gallon units; 2 gallon units;
10 gallon units; 22 oz. dual cartridge

PRECAUTIONS

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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