

PRODUCT DATA

Novolac Polymer Concrete

NOVOLAC POLYMER CONCRETE is a high strength, chemical resistant industrial Novolac epoxy material designed for the repair and replacement of concrete foundations exposed to harsh process chemicals. This is an especially good option where exposure to sulfuric acid is expected. Our three component epoxy Novolac Polymer Concrete is also effective when anchoring precision equipment to eliminate costly failures due to trauma degradation, chemical breakdown, oil saturation, freeze/thaw conditions and other stresses. This product is U.S.D.A. approved for incidental food contact.

FEATURES:

- 100% Novolac formulation provides superior chemical resistance to a broad range of corrosive chemicals
- Monolithic adhesion
- High strengths
- Resists impact, vibration and other stresses
- Fast setting formulation
- Eliminates curing cracks
- Provides dimensional stability
- Negligible shrinkage
- Reduces long term maintenance costs
- U.S.D.A. approved for incidental food contact

APPLICATIONS:

Novolac Polymer Concrete is perfect for grouting, re-grouting, anchoring, and repairing concrete in high chemical exposure areas. Applications include:

- Anchoring bolts
- Equipment bases
- Tower and turbine bases
- Repairing damaged concrete
- Precision alignment of equipment
- Rebuilding equipment foundations
- Heavy vibration applications
- Setting of rotating equipment
- Heavy chemical exposure

Use when clearances are 3/4 in. or more. Can be poured up to 12 in. deep in one lift.

PHYSICAL AND CHEMICAL CHARACTERISTICS:

Compressive Strength: 24 hours: 5,800 psi (ASTM D-695)	Full Cure: 18,000 psi
Compressive Modulus: 3.62 x 10 ⁵ psi (ASTM C-579-82)	
Tensile Strength: 1,950 psi (ASTM C-307-83)	
Flexural Strength: 3,750 psi (ASTM C-580-74)	
Flexural Modulus: 1.51 x 10 ⁶ psi (ASTM C-580-74)	
Linear Shrinkage: 0.7 x 10 ⁻³ in/in	
Coefficient of Expansion: 2.0 x 10 ⁻⁵ in/in/°C (ASTM D296-70)	
Pot Life: 40 minutes at 77°F	
Cure Rate: Minimum 18 Hours at 77°F/25°C	
Full cure: 5-7 days	
Yield: 1.0 cu. ft. units	

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PACKAGING: Novolac Polymer Concrete is packaged in 1.0 cubic foot units weighing 129 lbs. The resin is packed in a pail, the hardener is packed in a bottle, and the aggregate is packed in bags.

PREPARATION: (See SDS Sheet Before Using) Abrade concrete by bush hammering, scarification, or similar method to remove laitance and contamination from surfaces. For maximum adhesion, steel should be sandblasted where possible. Concrete must be clean, dry and free from dust. Prior to mixing, complete all surface preparation, forming and equipment organization. Material must be warm and dry (between 70°F and 90°F).

MIXING: Add the entire contents of the hardener to the resin and mix by hand or at low speed with a jiffy mixer attached to a handheld drill for 2 to 3 minutes (several batches can be mixed at a time as required). Slow speed mixing of the liquids is mandatory to minimize air entrapment. Slowly add aggregate and mix with helical ribbon mixer or mortar mixer. Mix only until thoroughly wet.

POURING: Pour the mixed material into the application area. Keep material flow steady. Allow the material to set for a minimum of 24 hours at 70°F before placing equipment into operation. Forms may be removed when a metallic sound results when hardened material is struck with a hammer.

POT LIFE: Mixed components have a pot life of approximately 40 minutes at 75°F.

TEMPERATURE LIMITATIONS: During the installation and cure, the surrounding concrete, steel and air temperatures must be between 60°F and 90°F. The polymer concrete should have a minimum temperature of 70°F. To optimize performance, ensure a minimum temperature of 70°F for material, surrounding concrete, steel and air. Under certain grouting conditions pre-wetting bearing surfaces may be necessary to increase flow and improve air release. If you feel you have such a situation call Indcon immediately. In cold weather building a shelter around the work area is recommend to warm the area to 70°F. Areas above 90°F must be protected from direct sunlight and the material cooled to below 90°F. Never pour in direct sunlight.

HARDENING AND CURE: Novolac Polymer Concrete will harden to 5,800 psi in 24 hours at 77°F and achieve full properties in 5 to 7 days.

STORAGE AND SHELF LIFE: Materials should be stored at room temperature (75°F). Stored at room temperature in unopened original containers, materials have a 2 year shelf life.

PRECAUTIONS: Read container labels and Safety Data Sheets (SDS) before using any product. Contact with either component can cause irritation. Wear protective clothing. Cover hands with chemical resistant gloves. Wear chemical splash goggles to avoid eye contact. Use only with adequate ventilation.

ADDITIONAL INFORMATION: For complete safety information refer to the material SDS. For additional information, contact us at 888-809-2365.

LIMITED WARRANTY: Product manufacturer warrants that the products are in conformance to the formulation standards of manufacturer and that such products are free from manufacturing defects. Purchaser's only remedy is replacement of the product. Manufacturer does not warrant or guarantee the workmanship performed by any person or company installing its products. In no event shall Manufacturer be liable for any incidental or consequential damages. This warranty is expressly given in lieu of all other warranties express or implied, including the warranties of merchantability and fitness for use and all other obligations or liabilities on Manufacturer's part. Manufacturer neither assumes nor authorizes any person or persons to assume for us any other liability in connection with the sale of Manufacturer's products. This warranty shall not apply to any of Manufacturer's products which have been subject to alteration, abuse or misuse. Manufacturer makes no warranty whatsoever in respect to parts, materials or accessories not supplied by Manufacturer which are used in connection with its products. The purchaser accepts these terms and conditions and hereby expressly waives any claim to additional damages.

CAUTION: Always keep out of the reach of children.

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