



Epoxy.com Product #301

100% Solids Low Viscosity Injection Resin

DESCRIPTION

Epoxy.com Product #301 is a 100% solids low viscosity epoxy adhesive used to restore cracked structural concrete by the pressure injection method and to grout cracks in a horizontal plane by gravity.

ADVANTAGES

- Moisture insensitive
- Low viscosity - exceptional flow characteristics
- High modulus for superior strength

APPLICATION PROCEDURES

Surface Preparation

Surface must be clean and sound. Interfaces of cracks must be free of dirt, laitance, grease, curing compounds and other foreign matter. Flushing with water through ports under pressure may be necessary prior to epoxy injection. Cracks may be damp or wet.

Mixing

Temperature of Epoxy.com™ Product #301 must be 40℞° F. or above at time of mixing. Stir each component separately before blending. Mix two parts by volume of Part A with one part by volume of B for three minutes with a low speed electric drill motor equipped with a mixing paddle.

Application

For pressure injection set ports at intervals that approximately equal the thickness of the member to be injected in inches. Ports may need to be placed closer together for very fine cracks, or may be slightly further for wider cracks. Seal between and around each port with Epoxy.com Product #5, or #6. Inject Product #301 from an epoxy injection machine or binary hand or pneumatic injection gun. For more information consult Epoxy.com™ technical service department.

Limitations

Minimum substrate temperature must be 40℞° degrees F.

CLEANING

All tools and equipment should be cleaned before the system gels. Use methyl ethyl ketone or any lacquer solvent.

SPECIFICATIONS

Certified ASTM C-881 Types I, II, IV & V. Grade 1, Class B & C.

APPLICATION PROPERTIES @ 77℞° F.	
Mix Ratio	2:1 by Volume
Gel Time	10.8 minutes
Color	Light Amber
Viscosity Mixed - ASTM D-2393	400-450 cps
Initial Cure	24 hours
Final Cure	7 days
Packaging	gallons, pails, drums

PHYSICAL PROPERTIES	
Concrete Bond Strength (ASTM C-882)	2,280 p.s.i
Compressive Strength (ASTM D-695)	10,000 p.s.i
Tensile Strength (ASTM D-790)	3,500 p.s.i
Elongation (ASTM D-638)	>10%
Adhesion to Concrete (ACI Committee 403)	250 p.s.i (Concrete Fails)

SAFETY PRECAUTIONS

For industrial use only. Keep away from children. Refer to the Material Health and Safety Data Sheets (MSDS forms) pertaining to this product before using. Avoid contact with skin or eyes. In the event of any eye splash or contact, immediately flush with cold water for 15 minutes and contact a physician. If skin contact occurs, wash with mild soap and water. The wearing safety glasses with side shields and impervious gloves is recommended.

RESIN WARNING STATEMENT

Warning: Causes irritation. May cause allergic skin reaction. Based on laboratory studies on animals, a cancer risk may exist. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

HARDENER WARNING STATEMENT

HMIS			
	Health	Fire	Reactivity
Resin	2	1	0
Hardener	2	1	0

**FOR INDUSTRIAL USE ONLY
KEEP AWAY FROM CHILDREN**

For more information please contact:

Epoxy.com.

352-489-1666 (Phone)

352-465-3497 (Fax)

info@epoxy.com

www.epoxy.com

Epoxy.com a division of Epoxy Systems, Inc. warrants its products (when properly stored) for the period of time as follows: Epoxies, Product #315, Product #315BC, and Product #316 one (1) year; Polyesters, Methyl Methacrylates (normal) two (2) months and Polyurethanes Four (4) months; Power Tools and Equipment 90 days; Vinyl Esters, High Molecular Weight Methacrylates (HMMA) and all other resins (not specifically mentioned above) 30 days; hand tools (non-power tools) 30 days. Epoxy.com warrants that its products will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed and applied in accordance with recommendations of Epoxy.com. If any product fails to meet this warranty, the liability of Epoxy.com will be limited to replacement of any non-conforming material if notice of such non-conformity is given to Epoxy.com within the warranty period for the material (as indicated above), or within 1 year of the delivery of materials (whichever is sooner). Epoxy.com may in its discretion refund the price received by Epoxy.com in lieu of replacing the material. No customer, distributor, or representative of Epoxy.com is authorized to change or modify the published specifications of this warranty in any way. No one is authorized to make oral warranties on behalf of Epoxy.com. In order to obtain replacement or refund the customer must provide written notice containing full details of the non-conformity. Epoxy.com reserves the right to inspect the non-conforming material prior to replacement. EXCEPT FOR THE EXPRESSED WARRANTY STATED ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. Epoxy.com'S OBLIGATION SHALL NOT EXTEND BEYOND THE OBLIGATIONS EXPRESSLY UNDERTAKEN ABOVE AND Epoxy.com SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY THIRD PARTY FOR ANY LOSS, COST, EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. All quotes and sales subject to availability.

Many of our products are made on an individual order basis. Unless authorized in writing by Epoxy.com a division of Epoxy Systems, Inc. in writing before the material is made, there are no returns on items purchased from us, once the order has been processed, and the material made. In the event of authorized returns a restocking charge will be charged in the amount of 30% of the value of the material returned or \$150 whichever is greater. No returns on non-list priced items. All Returns are for merchandise (store) credit only, no cash or credit card credits. In the event of a return, buyer is responsible for the cost of shipping and handling in both directions.