

Unisorb Adhesive V-100® Epoxy Grout

GB-0174-1.1 Rev. 2 – Technical Data Sheet

Adhesive V-100® Epoxy Grout is a two-component, 100% solids, BGE and VOC-free, epoxy resin system. This versatile, easy-to-handle adhesive has a paste-like consistency, short cure time and bonds to most surfaces.

- **Bonding steel plates to concrete**
- **Bonding of wood**
- **Bonding of plastic**
- **Bonding of ceramics**
- **Bonding of fiberglass**
- **Industrial filling or patching**
- **Vertical and overhead surfaces**
- **Crack repair**

Packaged in a convenient kit, consisting of one-part resin and one-part hardener.

Surface Preparation remove all oil, grease, or contaminated concrete. Scarify concrete surfaces to expose the large aggregate. Concrete surfaces must be clean and dry. Metal surfaces should be sand blasted to a “white metal” condition. The grout must be placed within 24 hours of sandblasting for best adhesion.

Mixing To use, mix in a separate container in equal portions of resin and hardener at a 1:1 ratio-by-volume. Be sure to use separate trowels for the resin and hardener to avoid contamination. Mix thoroughly and apply. Do not mix both containers together unless you are using all the adhesive in one application within the allowed working time. Containers with unmixed material can be resealed for future use. Mixed adhesive cannot be resealed for future use.

Placement time of Adhesive V-100 Epoxy Grout (the time you have before it sets) will vary according to the air temperature . Average placement time at 70°F is approximately 45 minutes for (1) pint of mixed material. In cooler weather you have more time to work with the material; in warmer weather you have less time.



Adhesive 2-Part Kits
Left: 24.5# Kit, Right: 3.2# Kit

Cure Time averages at 4-5 hours at 70°F. Air temperature above and below 70°F, product storage temperatures, as well as the temperature of the surface on which the adhesive is being applied, will affect cure time. Prewarming the parts or surfaces will accelerate the cure time, but do not heat the surface above 100°F

PACKAGING YIELD	PRODUCT CODE
3.2# Kit = .033 cu. ft. (58 Cu. In.)	496003
24.5# Kit = .26 cu. ft. (450 Cu. In.)	496028

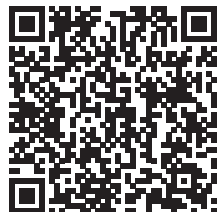
Physical properties shown are the result of laboratory testing performed per industry recognized test procedures. Laboratory properties aid in determining suitability of the product for the intended application. Field testing results may vary due to procedures or ambient conditions such as temperature and humidity.

Consult the specific Safety Data Sheets (SDS) for all safety data.

PROPERTY	psi	MPa	TEST METHOD
COMPRESSIVE STRENGTH , psi (MPa)	10,000 psi *	69 MPa	ASTM D 695
Tensile Strength	3,700 psi	26 MPa	ASTM D 638
Flexural Strength	6,500 psi	45 MPa	ASTM D 790
Tensile Shear Strength	2,400 psi	17 MPa	ASTM D 1002
Heat Deflection Temperature	147°F	64°C	ASTM D 648
Maximum Service Temperature	200°F	93°C	
Hardness @ 72°F, Shore D	87		ASTM D 2240
Gel Time @ 72°F	14 fl. oz. (414 ml)	1 hour	ASTM D 2471
	1/16" (1.6mm)	2 hours	
Recommended Thickness	1/32" – 1/4"		ASTM C 1181

* Lower modulus materials often do not exhibit a definite yield point. The compressive strength stated was recorded at a loading speed of 0.05 in./min. and at a point in which samples had been deeply compressed. The sample had not yet fractured at the point testing was discontinued.

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Safety Data Sheet

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