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STANDARD V-100 EPOXY GROUT PRODUCT DATA

Unisorb's Standard V-100 Epoxy Grout is a high performance, two-component filled epoxy resin system of superior quality that offers excellent flowability, a high resistance to impact and an extremely rapid cure. This grout is the product of choice where ease of placement, suitability for use under extremely high loads, and minimal cross-sectional thicknesses are required. Other materials such as concrete or weaker grouts may develop structural flaws when subjected to high concentrated loads.

Standard V-100 is the responsible choice for use in your commercial or industrial space. This grout is 100% solids, has no VOCs¹, is free of BGE², and does not contain nonylphenol³.

The optimal use for Standard V-100 is to fill gaps under leveling equipment, under baseplates, and around anchors. The designed clearance range is ½" to 1½" both vertically and laterally/radially. Consult with Unisorb's team of engineers, technicians, and project managers to confirm the best use of Standard V-100 Epoxy Grout in your application.

Modern plant maintainers face many challenges where it is critical to have superior solutions in their toolbox. The standard for installing machine tools and other large equipment is Unisorb Standard V-100 Epoxy Grout.

Packaging/Yields:

Standard V-100® Epoxy Grout, 11# Kit (0.10 Cu. Ft.) Standard V-100® Epoxy Grout, 22# Kit (0.21 Cu. Ft.) Standard V-100® Epoxy Grout, 55# Kit (0.53 Cu. Ft.)

Standard V-100® is an ideal choice for:

- Grouting machine bases
- Installation of anchor bolts
- Setting of Fixators and other leveling devices
- Placement of sole plates
- · Repairing deteriorated foundations
- 1 VOCs are Volatile Organic Compounds. Organic gases that are sometimes emitted by inferior grouting products that pose a variety of short and long-term health risks.
- 2 BGE is butyl glycidyl ether. The EPA (SARA Title III, section 312) lists BGE as "Toxic" (per ANSI Z129.1) by skin absorption and an immediate health hazard.
- 3 Nonylphenol is a Marine Pollutant and considered "Dangerous for the environment" per the EU directive 79/831/EEC.



Physical F	roperties (@ 72°F (22°C)
Compressive Streng		
(ASTM D-695)	6 hours 1 day 3 days 7 days	9,000 psi 14,020 psi 15,250 psi 16,500 psi
Compression Modu	ılus	
		436,000 psi
Tensile Strength		,
(ASTM D-638)		4,800 psi
Flexural Strength		1,000 ps.
(ASTM D-790)		6,800 psi
Heat Deflection Ter	nnerature	0,000 psi
(ASTM D-648)	inperature	161°F
Maximum Service 1	[emnerature	101 .
Trianina in Service	emperature	200°F
Hardness (Shore D)		
(ASTM D-2240)		90
Mixed Viscosity		
(ASTM D-2196)		8,000 cps
Adhesion Slant She	ar Test	
(ASTM C-822)		4,200 psi
Specific Gravity		
(ASTM D-792)		105 lbs./Cu. Ft.
Placement Time		10-15 min.
Tensile Modulus		1.01 x 10 ⁶ psi
Linear Shrinkage		
(ASTM D-2566)		0.00025 in./in.
Coefficient of Thermal Expansion		
(ASTM D-696)		2.0 x 10 ⁻⁵ in./in./°F
Creep Test (ASTM C-1181)		
600 psi @ 150°F cured 24 hours @ 70°F 16 hours @ 150°F		
		1.95 x 10 ⁻² in./in.



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IMPORTANT ADVANTAGES: PERMANENCE

Standard V-100® is durable materials that will maintain machine alignments for a long time. Saves downtime, labor, and lost production. Resistance to oils, greases, acids, alkalies and solvents is much greater than that of cement-based materials. Tensile and flexural strengths are at least 15 times that of concrete and compressive strength is about 5 times that of concrete.

PACKAGING/CONVENIENCE

Standard V-100® is packaged in a kit with the base resin packed in an oversized container large enough to serve as a mixing vessel. The hardener portion of the kit is added to the base resin on-site. A Traditional Epoxy Mixing Paddle can be purchased separately to fit a standard 1/4" electric drill. After a mix time of 2-3 minutes a 15 minute working time remains for placement of the material. For Gel Time vs. Temperature and Mixed Viscosity vs. Temperature see graphs on the left of this page.

EASY, FLOW-INTO-PLACE INSTALLATION

Flows into spaces under machines of 1/2" or less and fills completely before solidifying.

RE-GROUTS

When required due to soil and foundation settlements, regrouting is as simple as breaking any rigid connections from our facility to the equipment and raising it to the correct elevation and/or alignment. Establish a proper minimum section and regrout with Standard V-100® Epoxy Grout.

MINIMUM MATERIAL USAGE

Maximum thickness of 1" (unconfined), up to 1 %" under a steel plate. Minimum thickness of %". Contact Unisorb for assistance if your unique application requires thicknesses outside of these parameters.

FAST CURE

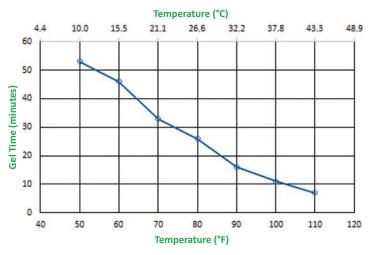
At 77°F, a 1/2" thickness will set up for use in 8 hours.

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. Laboratory reports are available on request.

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

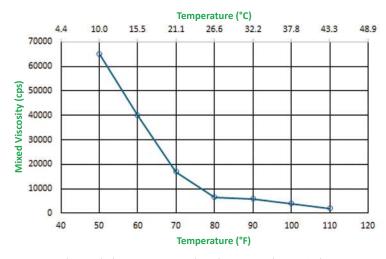
Contact Unisorb for all application questions and grouting support.

STANDARD V-100® EPOXY GROUT GEL TIME VS. TEMPERATURE



This graph shows gel time as a function of temperature. With the curve being basically linear, a good rule of thumb is 30 minutes (approximately) at room temperature (72°F) and varies about 1 minute per degree temperature change.

STANDARD V-100® EPOXY GROUT MIXED VISCOSITY VS. TEMPERATURE



This graph shows viscosity is relatively constant above 80°F, but changes rather dramatically between 70°F and 50°F. This can be very noticeable when pouring on concrete which may be 10-20°F cooler than the ambient air temperature.