

# STANDARD V-100® EPOXY GROUT



## STANDARD V-100®

A two-component, 100% solids, filled epoxy resin system of superior quality, offering excellent flowability, high resistance to impact and extremely rapid cure.

This grout is the product of choice where ease of placement, suitability for use under extremely high loads, and minimal cross section thicknesses are necessary. Other materials such as concrete or weaker grouts may develop structural flaws when subjected to high concentrated loads.

Standard V-100® is a perfect choice for:

- Grouting machine bases
- Setting anchor bolts
- Setting leveling wedges
- Setting sole plates
- Repairing deteriorated foundations

The rapid strength development of Standard V-100® permits loads to be applied much sooner after grouting than with other materials. Its excellent flowability permits use in extremely thin cross-sections.

### IMPORTANT ADVANTAGES: PERMANENCE

Eliminates need for periodic

PHYSICAL PROPERTIES	
<b>Color</b>	Gray Green
<b>Compressive Strength (ASTM D-695)</b>	
6 hours	9,000 psi
3 days	15,250 psi
7 days	16,500 psi
<b>Compression Modulus</b>	
7 days	436,000 psi
<b>Tensile Strength (ASTM D-638)</b>	4,800 psi
<b>Heat Deflection Temperature (ASTM D-648)</b>	161°F
<b>Maximum Service Temperature</b>	200°F
<b>Placement Time @ 77° F</b>	10-15 minutes
<b>Tensile Modulus</b>	1.01 x 10 <sup>6</sup> psi
<b>Flexural Strength (ASTM D-790)</b>	6,800 psi
<b>Mixed Viscosity (ASTM D-2196)</b>	8,000 cps
<b>Adhesion Slant Shear Test (ASTM C-882)</b>	4,200 psi
<b>Specific Gravity (ASTM D-792)</b>	1.7
<b>Hardness (Shore D) (ASTM D-2240)</b>	90
<b>Density (cured)</b>	105 lbs./cu. ft.
<b>Creep Test (ASTM C-1181)</b>	
600 psi @ 150°F cured 24 hours @ 70°F 16 hours @ 150°F	1.95 x 10 <sup>-2</sup> in./in.
<b>Linear Shrinkage (ASTM D-2566)</b>	0.00025 in./in. @ 77° F
<b>Coefficient of Thermal Expansion (ASTM D-696)</b>	2.0 x 10 <sup>-5</sup> in./in. @ 77° F

regrouting. 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

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 at the job site. A stirring paddle is included which will 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 next page.

(cont.)

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

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

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## EASY, FLOW-INTO-PLACE INSTALLATION

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

## REGROUTS

No need to move equipment or break connections. Just raise equipment 1/2" to 3/4" and regROUT with Standard V-100®.

## TYPICAL POUR DEPTH

Thickness of 1/4" up to 1" (unconfined), up to 1 1/2" under plate. (Multiple layers may be used for thicker pours.)

## SMOOTHER MACHINE OPERATION

Standard V-100® survives impact and vibration as well as reinforced rubber materials and will not delaminate under the most severe shock loads.

## FAST CURE

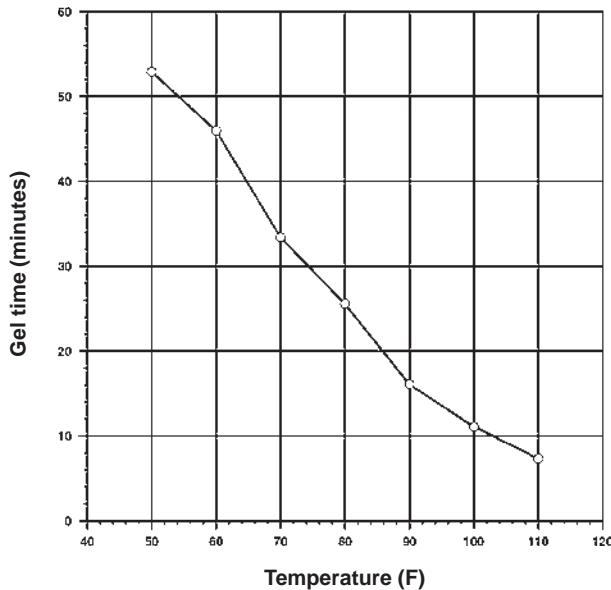
At 77° F, a 1/2" thickness will set up for use in 8 hours.

### PACKAGING/YIELD

11# Kit = .10 cu. ft. (181.5 cu. in.)  
22# Kit = .21 cu. ft. (363.0 cu. in.)  
55# Kit = .53 cu. ft. (907.5 cu. in.)

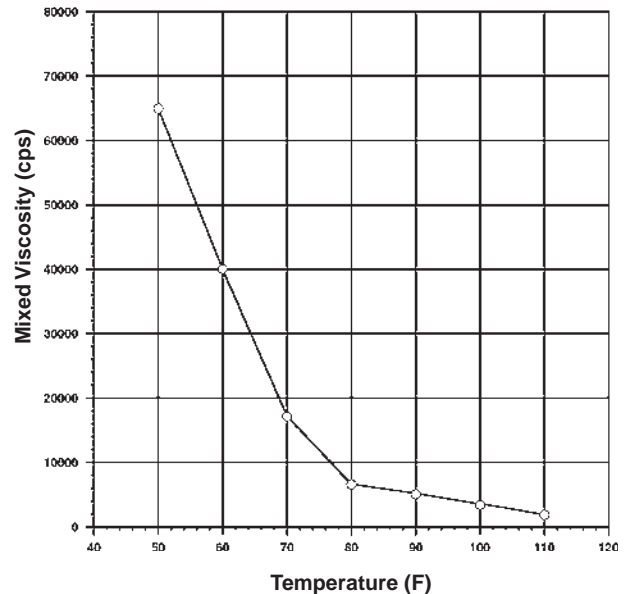
## TEMPERATURE CONSIDERATIONS

### STANDARD V-100® 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 (approx.) at room temp. (72° F) and varies about 1 minute per degree temperature change.

### STANDARD V-100® 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.