

VIR100TM Epoxy TECHNICAL DATA

SOLVENT-FREE EPOXY COATING

**Vacuum Infusion Resin
Slow Setting Epoxy
Sealer/Primer**

**Low Viscosity
Slow Cure
Easy 2:1 Mixing Ratio
Contains no carcinogens**

VOC 0-5 g/l category: Waterproof

<p>STANDARD PRODUCT DESCRIPTION</p>	<p>Vacuum Infusion Resin (VIR100TM) epoxy is a 100% solids, low viscosity, clear resin system designed for a variety of applications. Non-Blushing and Non-Water spotting, moisture insensitive with good chemical resistance and physical properties. Used in vacuum infusion systems.</p>
<p>USES</p>	<p>Clear Coat Surface Vacuum Infusion Sealing Wood Primer under other epoxies or urethanes</p>
<p>FEATURES</p>	<p>Low viscosity Slow curing Convenient 2 to 1 ratio by volume (1 to .43 by weight) Non-blushing/water spotting Bonds to damp concrete Self-leveling and air releasing (non bubbling) Solvent-free (no odor)</p>
<p>VISCOSITY</p>	<p>Viscosity (approximate) at 72°F: Part A: 500 cps Part B: 80 cps Mixed: 175 cps</p>
<p>PHYSICAL PROPERTIES</p>	<p>COMPRESSIVE STRENGTH ASTM D695 11,000 psi TENSILE STRENGTH ASTM D638 3,800 psi ELONGATION AT BREAK ASTM D638 6.68 % ABRASION RESISTANCE CS-17 WHEEL, 1 kg LOAD ASTM D4060 0.10 gm loss WATER ABSORPTION ASTM D570 0.09 % (2 hour boil) FLEXURAL STRENGTH ASTM D790 9,600 psi VOC 0-5 g/l SHORE D HARDNESS ASTM D2240 90 HEAT DISTORTION ASTM D649 120° F TEMPERATURE</p>

MULTI-VENDOR EPOXY SOLUTIONS

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CURE SCHEDULE	<p>POT LIFE @ 75°F 40 - 60 minutes TACK FREE 8 hours</p>
SURFACE PREPARATION	<p>Surface to be topcoated must be clean and free of oils, grease and loose contamination.</p>
APPLICATION	<p>Mix VIR100 epoxy base with the VIR100 curing agent. Use a mechanical mixer if possible to ensure thorough mixing. The mixing ratio is 2/1 (base/curing agent) by volume. Mix really well - with parts A and B so thin and clear it is very easy to mix poorly and have uneven mixing within the same batch. This will produce tacky sections that never get completely hard and tack free. LOW V does not require a 'sweat-in' or induction time and the mixed components should be used immediately.</p> <p>Potlife is approximately 40 minutes at 75°F, so mix only the amount of epoxy that can be easily applied within that time limit. Apply using a brush, roller, squeegee or pour. Use straight or thin with solvent for a wood penetrating epoxy. Mix with thickeners to get an epoxy putty.</p>
NOTES	<p>Unless top-coated with a UV absorber, this epoxy will yellow in sunlight.</p> <p>This epoxy will generate a considerable amount of heat when it hardens. Thin plastic containers will melt.</p>
TEMPERATURE	<p>Temperature will exert a considerable influence on the rate of curing of chemically cured coatings such as VIR100 epoxy. In broad terms expect each 10°C, (18°F), rise or fall in temperature to half or double dry times and pot lives.</p> <p>Recommended for application temperatures above 70°F.</p>
TRANSPORT	<p>Epoxy base - Nonregulated by USDOT, IATA & IMO. Curing agent - USDOT, IATA & IMO "Regulated". Class 8, Packing group III, UN 2735, Corrosive. Curing agent quantities of under 4 liters is ORM-D exempt for ground shipment.</p>

SAFETY: This is a hazardous material if misused. Read and understand the Material Safety Data Sheet (MSDS) before use.

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