



GB-0149-1.1, Rev. 1

CR HI-FLOW V-100 EPOXY GROUT PRODUCT DATA

A two-component, 100% solids, epoxy resin system specifically developed for wind turbine bases, crane rails, and other extraordinarily severe applications where exposure to extreme loads, elevated temperatures and high and high humidity shortens the service life of other grouting materials. CR Hi-Flow V-100 Epoxy Grout is formulated to be very flowable for ease in placement under longer rails or machine bases. Typical pour cross-sections range from 1/4" to 2" with the material shipped in an easily mixed two-part kit.

After curing, CR Hi-Flow V-100 Epoxy Grout is impervious to water and saltwater, and can be used in total submersion without affect on its operational functions. It is resistant to most fuels, oils, chemical and water absorption, making it ideal for heavy industrial use outdoors. It offers the same features as our other epoxy grouts, i.e. high strength, ease of mixing, self-leveling, and fast cure times.

Packaging/Yields:

CR Hi-Flow V-100 Epoxy Grout, 0.21 Cu. Ft. Kit (358 Cu. In.)
CR Hi-Flow V-100 Epoxy Grout, 0.49 Cu. Ft. Kit (846 Cu. In.)

- 15,000 psi compressive strength in 8 hours
17,700 psi compressive strength in 24 hours
- Easy mixing - two part kit - no added aggregate
- No special mixing
- Contains no BGE or free silica
- Extra resistant to UV rays and water
- No special mixing equipment needed - just a power drill
- Cross sections as low as 1/4" can be achieved

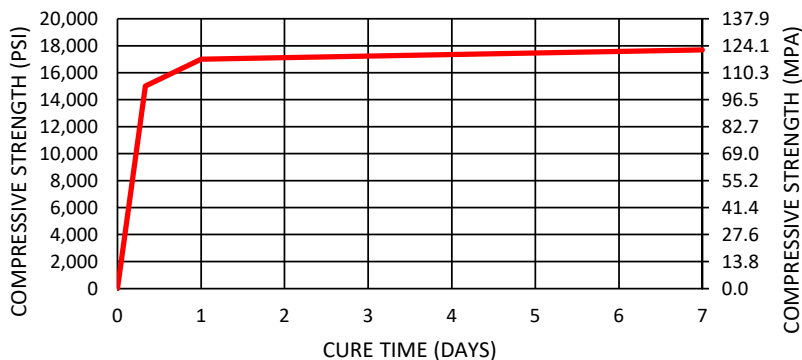


Physical Properties @ 72°F (22°C)

Compressive Strength		
(ASTM C-579)	1 Day	17,700 psi
Tensile Strength		
(ASTM C-307)		5,500 psi
Flexural Strength		
(ASTM C-580)		8,100 psi
Modulus of Elasticity		
(ASTM C-580)		1,000,000 psi
Heat Deflection Temperature		
		200°F
Maximum Service Temperature		
		275°F
Hardness (Shore D)		
(ASTM D-2240)		95
Mixed Viscosity		
(ASTM D-2393)		7,500 cps
Gel Time		
		30-35 min.
Placement Time		
		15-20 min.
Typical Pour Depth		
		1/4" - 2"
(Multiple layers may be used for thicker pours)		

CR HI-FLOW V-100 EPOXY GROUT

TYPICAL FIELD RESULTS





INSTALLATION SOLUTIONS

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CONCRETE SURFACE PREPARATION

Remove all oil, grease and contamination from concrete. Remove loose and weak concrete from the foundation surfaces. The concrete must be dry and have no standing water.

METAL SURFACE PREPARATION

Base plates or soleplates to be grouted should be clean and free of rust, dirt and other surface contaminants.

FORMING

Method of forming must provide for rapid continuous placement of grout. Adequate clearance for grout placement and head must be provided. Forms should be watertight and greased or waxed to allow easy removal.

PREPARATION OF EPOXY GROUT

All unmixed grout components (resin, hardener, and aggregate) must be stored inside a dry, temperature-controlled storage environment with an approximate temperature range of 75°F to 90°F until all three components exhibit temperatures within this range. This could take 24 to 72 hours depending on seasonal temperature conditions.

MIXING THREE PART EPOXY

Three part formulas contains resin, hardener and an aggregate. When ready to mix grout, pour the hardener into the resin container and mix with a paddle with a variable speed drill until thoroughly blended. Pour mixed resin and hardener into a larger container

or paddle type mortar mixer (poly material preferred). Slowly add all of the aggregate until all surfaces become wet as it is mixed. Continue to mix until there are no dry streaks. Do not add water.

POURING

Only pour grout from one side. This is to prevent the formation of air pockets under the equipment being grouted. Continue pouring until the grout has completely flowed to the other side of the equipment and to an adequate depth to eliminate potential voids. The grout will self-level under most circumstances but may need to be agitated, pushed, strapped, etc. to help the material flow under the equipment and properly self-level, especially in cold weather

PLACEMENT TIME

The time you have before initial set depends on the air temperature, the ambient temperature of the foundation and equipment, and the temperature of the grout. In cooler conditions you will have more time to place the material, and in warmer temperatures you will have less time.

CURE TIME

The cure time (the time until the grout is strong enough for use) is temperature dependent. Special precautions must be taken when temperatures are below 70°F or above 90°F to assure the grout will properly cure. Consult the factory for details.

TEMPERATURE CONSIDERATIONS

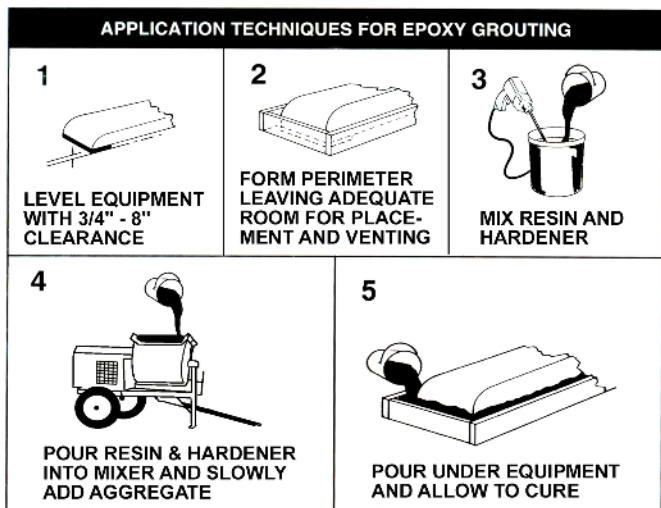
The temperature of the kit components (resin, hardener, and aggregate) at the time of mixing and placement have a significant effect on ease of mixing, placement of the mixed grout, and strength development. For optimum results it is very important all three unmixed grout components are within the 75-90 degree F temperature range. It is recommended that the grouting environment also be preconditioned to a temperature range of 70°F to 95°F to assure predictable results.

CLEANUP

Uncured grout may be cleaned from tools and mixing equipment with a mild solvent, detergent, or pressurized water rinse. For best results, clean mixing equipment and tools immediately upon completion of mixing activities.

PRECAUTIONS

Always wear appropriate Personal Protective Equipment (PPE). SDS are available on our website at www.Unisorb.com. Avoid inhaling fumes and keep the work area well ventilated. Wash skin and clothes with soap and water immediately (before grout cures).



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.