



INSTALLATION TECHNOLOGIES

# DATA SHEET

## CR HI-FLOW V-100™ EPOXY GROUT

Bulletin No.  
GB-0149-1.1  
05/10



- 15,000 psi compressive strength in 8 hours  
17,700 psi compressive strength in 24 hours
- No clean up required (mixed in disposable pails)
- Easy mixing - two part kit - no added aggregate
- No special mixing equipment needed - just a power drill
- Minimal PPE required (no aggregate or dust)
- Extra resistant to UV rays and water
- Cross sections as low as 1/4" can be achieved
- Contains no BGE or free silica
- Most experienced field support team in the industry

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 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.

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.

PACKAGING/YIELD	
22# Kit =	.21 cu. ft. (358 cu. in.)
52# Kit =	.49 cu. ft. (846 cu. in.)

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

After curing, CR Hi-Flow V-100 Epoxy Grout is impervious to water and and saltwater, and can be used in

### TYPICAL FIELD RESULTS

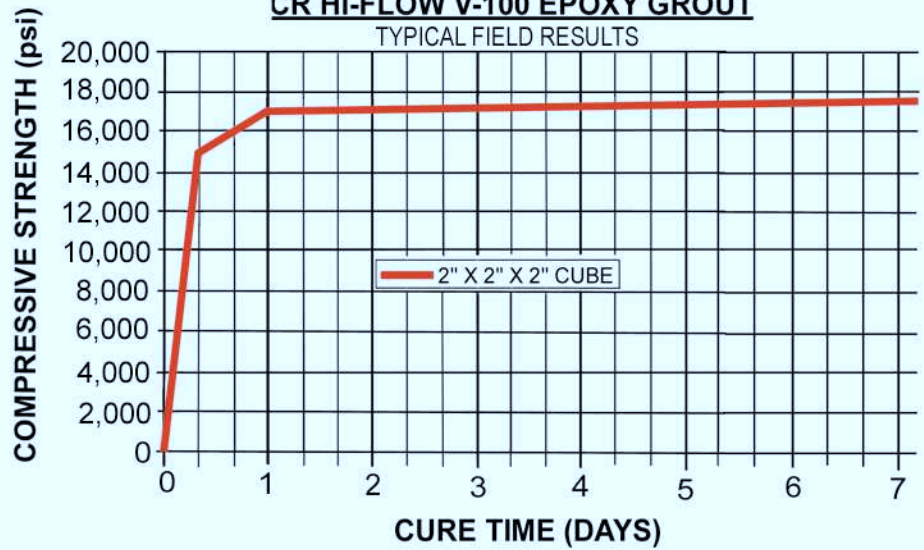
#### PHYSICAL PROPERTIES

Cure @72°F	
<b>Compressive Strength</b> (ASTM C-579) (72°F)	17,700 psi
<b>Tensile Strength</b> (ASTM C-307)	5,500 psi
<b>Flexural Strength</b> (ASTM C-580)	8,100 psi
<b>Modulus of Elasticity</b> (ASTM C-580)	1,000,000 psi
<b>Heat Deflection Temperature</b> (ASTM D-648)	200°F
<b>Maximum Service Temperature</b>	275°F
<b>Hardness</b> (Shore D) (ASTM D-2240)	95
<b>Mixed Viscosity</b> (ASTM D-2393)	7,500 cps
<b>Gel Time</b>	30-35 min.
<b>Placement Time</b>	15-20 min.
<b>Typical Pour Depth</b> (Multiple layers may be used for thicker pours.)	1/4 in. - 2 in.

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 test results may vary due to procedures or ambient conditions such as temperature and humidity. Laboratory reports are available on request.

### CR HI-FLOW V-100 EPOXY GROUT

TYPICAL FIELD RESULTS





# CR HI-FLOW V-100 EPOXY GROUT BASIC APPLICATION TECHNIQUES

## CONCRETE SURFACE PREPARATION

Remove all oil, grease and contamination from concrete. Remove loose and weak concrete from the foundation surfaces. The concrete must be clean and dry, with 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

Store the material between 70-80° F. Do not mix until ready to pour. Generally, two groups working with the grout (one mixing and one pouring) is best.

## MIXING TWO PART EPOXY

Two part formula contains a resin and a hardener. When ready to mix grout, pour the hardener into the resin container and mix

with a paddle in a variable speed drill until thoroughly blended. Avoid pulling the paddle out of the grout while mixing to prevent air from being introduced into the grout. Do not add water.

## POURING

Always pour from one side to prevent air pockets under the equipment. Continue pouring until the grout has migrated to the other side of the equipment, then move the pouring spout along the same side of the equipment to where the grout has stopped. The grout will self-level.

## 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 be-

low 50° or above 95° F to assure the grout will properly cure. Consult the factory for details.

## TEMPERATURE CONSIDERATIONS

The temperature of the kit components (resin and hardener) at the time of mixing and placement has a significant effect on both the ease of mixing and placement of the mixed material. For optimum results (in ease of mixing and placement, as well as in the final strengths attained) it is very important that both components are at a temperature between 70° and 80° F at the time of mixing and placement. Storage of both components at a temperature within this range for a minimum of 18 hours before mixing is recommended.

## CLEAN UP

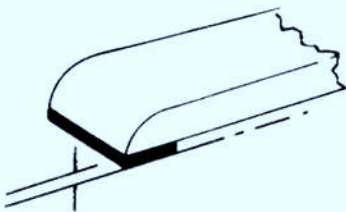
Uncured grout can be easily removed from tools and equipment with soap and water. Any grout that has started to set can be removed using isopropyl alcohol or a non-flammable environmentally responsible epoxy solvent.

## PRECAUTIONS

*Always wear appropriate Personal Protective Equipment. MSDS are available on our web site at [www.unisorb.com](http://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).*

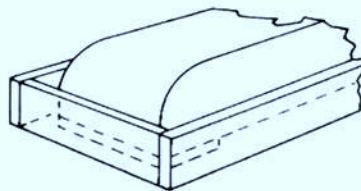
### APPLICATION TECHNIQUES FOR EPOXY GROUTING

1



LEVEL EQUIPMENT WITH  
1/4" - 2" CLEARANCE

2



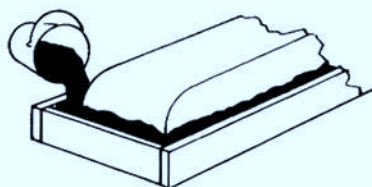
FORM PERIMETER LEAVING  
ADEQUATE ROOM FOR  
PLACEMENT AND VENTING

3



MIX RESIN AND HARDENER

4



POUR UNDER EQUIPMENT  
AND ALLOW TO CURE



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[www.unisorb.com](http://www.unisorb.com)

BOX 1000, JACKSON, MI 49204-1000

888-4-UNISORB • FAX 517-764-5607

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