

DCR V-100™ EPOXY GROUT

Bulletin No.
GB-0146-1.1
05/10



- 15,200 psi compressive strength in 6 hours
16,700 psi compressive strength in 24 hours
- High flowability for easy pours
- Suitable for either indoor or outdoor use
- Resistant to UV rays and water
- Acid and chemical resistant
- Deep pours can be done in one step
- Mix with drill and paddle or paddle type mortar mixer
- Easy clean up with water and detergent
- Most experienced field support team in the industry

Unisorb DCR V-100 Epoxy Grout is a three-component, 100% solids epoxy resin system. It is specifically designed for applications requiring high mechanical strength due to high loads. DCR offers resistance to temperature, humidity, chemical environments and most acids.

DCR V-100 Epoxy Grout is formulated for medium thickness pours. It is recommended for applications varying from 1 1/2" to 8" cross sections. Flow characteristics of DCR allow easy placement. Its tremendous compressive strength characteristics makes it especially suited

for severe applications such as forge hammers, punch presses, stamping press bolster rails, rail installations of all kinds, and power generation equipment.

PACKAGING/YIELD

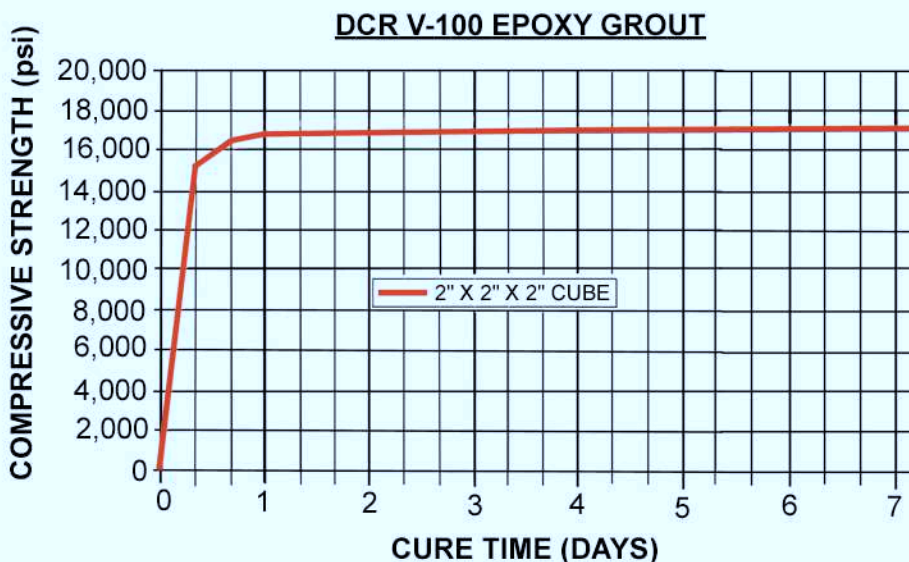
63# Kit = .50 cu. ft. (864 cu. in.)
125# Kit = 1.00 cu. ft. (1,728 cu. in.)

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

PHYSICAL PROPERTIES

Cure @72°F

Compressive Strength (ASTM D-695) (72°F)	17,000 psi
Tensile Strength (ASTM D-638)	3,000 psi
Flexural Strength (ASTM D-790)	6,000 psi
Heat Deflection Temperature (ASTM D-648)	227°F
Maximum Service Temperature	325°F
Hardness (Shore D) (ASTM D-2240)	90
Mixed Viscosity (ASTM D-2196) (77°F)	20,000 cps
Gel Time	50-60 min.
Placement Time	20-25 min.
Typical Pour Depth	1 1/2 in. - 8 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.

DCR 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 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

Store the material between 70° and 90° F. Do not mix until ready to pour. Generally, two groups working with the grout (one mixing and one pouring) is best.

MIXING THREE PART EPOXY

Three part formula contains resin, hardener and an aggregate. When ready to mix grout, pour the hardener into the resin con-

tainer and mix with a paddle in 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 pour the two bags of aggregate until all surfaces become wet as it is mixed. Continue to mix until there are no dry streaks. Do not add water.

POURING

Always pour from one side to prevent air pockets under the equipment. Continue pouring until the grout has penetrated 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, but may need to be helped to flow under the equipment, especially in colder conditions.

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 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, hardener and aggregate) 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 all three components are at a temperature between 70° and 90° F at the time of mixing and placement. Storage of all three components at a temperature within this range for a minimum of 18 hours before mixing is recommended.

CLEAN UP

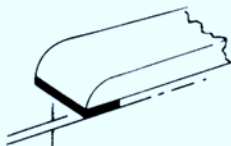
Because of the presence of the aggregate, the uncured grout may be cleaned from tools and equipment with a water rinse.

PRECAUTIONS

Always wear appropriate Personal Protective Equipment. MSDS are available on our web site 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).

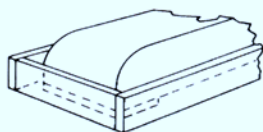
APPLICATION TECHNIQUES FOR EPOXY GROUTING

1



LEVEL EQUIPMENT WITH 3/4" - 8" CLEARANCE

2



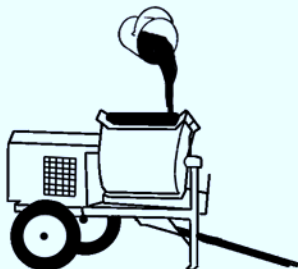
FORM PERIMETER LEAVING ADEQUATE ROOM FOR PLACEMENT AND VENTING

3



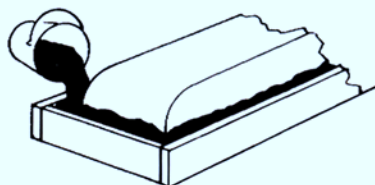
MIX RESIN AND HARDENER

4



POUR RESIN & HARDENER INTO MIXER AND SLOWLY ADD AGGREGATE

5



POUR UNDER EQUIPMENT AND ALLOW TO CURE

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INSTALLATION TECHNOLOGIES

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