T E C H N I C A L D A T A

#700 LOW VISCOSITY POLYURETHANE RESIN

DESCRIPTION

#700 is a single component super low viscosity hydrophilic polyurethane chemical grout. When it comes in contact with water it expands to form a tough flexible closed cell foam which bonds extremely well to concrete. When cured it becomes an extremely tough and flexible barrier against water penetration.

APPLICATIONS INCLUDE:

- **Basement Cracks**
- **Manholes**
- **Swimming Pools**
- **Tunnels**

Manufacturer
CPR Products, Inc.
1315 West Lark Industrial Dr.
St. Louis, MO 63026
Telephone: [636] 717-0666

Benefits

- Single component [no catalyst required]
- Extremely flexible
- Very tough foam
- Low viscosity for tight cracks
- Penetrates concrete pore structure for superior bond

How to use

Surface Mount Port Application

The surface of the crack should be cleaned and roughed with wire brush or wheel to allow for better surface seal bond to concrete. Prepare a small batch of epoxy surface sealer material. Apply a thin bead of material around the perimeter of the ports' base. Center the barrel of the port over the crack and press into place. Space ports every 4" to 6" (maximum) along crack. Mix additional surface seal material and seal off the crack and around the base of each port. Apply approximately 1/8" thick layer of material by 3" wide over the center of the crack.

Prior to injecting #700 Urethane, fill empty cartridge from the top with water (cut off half of white top plug, DO NOT REMOVE BLACK PLUNGER FROM BOTTOM). Remove plug and install mixer/nut.

PROPERTIES OF #700 LOW VISCOSITY POLYURETHANE

Appearance	Light Yellow Liquid	
Viscosity	100 cps	@ 77°F
Weight Per Gallon	9 lbs	@ 77°F
Working Time / Pot Life	90 Seconds	@ 77°F
Initial Cure Time	3 Minutes	@ 77°F

Cured Foam Test Results *

Tensile Strength	ASTM D-412	55 psi
Elongation	ASTM D-412	300%
Die-C Tear	ASTM D-624	12 pli

* Results are based on foam cured under pressure. Properties may vary depending on job conditions.

Beginning at the bottom port, inject the #700 with slow, steady pumps. Pump until resin appears at the next port above. Work your way up the wall until you have reached the top.

Drilled Port Procedure

- Drill injection port holes at a 45° angle to intersect the crack midway through the depth of the structure. These holes should be approximately 6" to 24" apart depending on the width of the crack
- Clean the holes out by injecting water through a wand that will reach to the back of the hole.
- Insert packer or bang in port. Remove the zerk tips from all of the ports except the first one to be injected.
- Inject clean water into port at 250 psi min. Air and water will begin to flow out of the crack and ports above. Repeat this process for each port.
- Remove the zerk tips from all ports except the first one to be injected. Be sure to use a different pump or flush the pump thoroughly with solvent.
- Starting with the first port pump the #700 Urethane at 250 psi. Increase the pressure as needed to gain full penetration. **Never exceed maximum safe operating pressures.**
- Once the material has fully penetrated the crack or begins to flow out of the next port, put the zerk tip on the next port and begin pumping. Repeat this procedure until the entire crack has been pumped.
- Flush out your pump at the end of the day. Material left in the pump may cure overnight and ruin the pump.
- Contact CPR Products, Inc. for further application instructions.

Precautions

Use safety glasses or chemical goggles and gloves when handling materials. Avoid breathing vapors. Vapor overexposure may cause respiratory irritation, central nervous system depression, and allergic reaction. Use adequate ventilation. In case of skin contact, remove any contaminated clothing. Wash area of contact with soap and water. For eye contact, flush immediately with plenty of water for at least 15 minutes. Contact physician immediately.

Packaging

- 16.5 oz. Dual cartridges packed 15 per case

Storage

Materials must be stored in dry conditions below 80°F Under proper conditions, the shelf life is 6 months. In unopened containers.

Warranty

All recommendations, statements and technical data contained herein are based on tests we believe to be reliable and correct. CPR Products, Inc. warrants its products to be free of manufacturing defects and that at the time and/or place of shipment our material will meet current published physical properties when applied with ASTM and CPR Products, Inc. standards. CPR Products, Inc. liability is limited to the replacement of the material if found to be defective. As CPR Products, Inc. has no control of the use to which others may put its products, it is recommended the products be tested to determine if suitable for specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect, engineer, contractor and the owner for the design, application and proper installation of each product. Nothing contained herein shall be construes to be a recommendation to use or as a license to operate under or to infringe any existing patents.

CPR PRODUCTS, INC.

1315 West Lark Industrial Dr. St. Louis, MO 63026 Phone [636] 717-0666