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

#202 MULTIGROUT

DESCRIPTION

#202 MULTIGROUT is a polymer solution which cures when reacted with water. #202 MULTIGROUT reacts freely with water in any proportion to form a strong film, gel or foam of polyurethane. #202 MULTIGROUT'S use intended use would be to prevent water infiltration into sub-grade structures and pipes. For special application procedures, please contact CPR Products, Inc.

APPLICATIONS INCLUDE:

- **Pre Cast Joints**
- **Manholes**
- **Storm/Sanitary pipe joints**
- **Tunnels**
- **Cold Joints**

Manufacturer

CPR Products, Inc.
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Benefits

- Single component [no catalyst required]
- Multi ratio capability: can be used neat or mixed with water up to a 50:1 ratio
- Penetrates concrete pore structure for superior bond

How to use

Expanded Gasket Placement Technique [EGP] is the process whereby oakum strips or open cell foam backer rod, soaked in #202, are then packed around pipes or in joints to achieve a very effective seal. The following procedures should be followed:

- Step 1. Clean the joint to be sealed of any loose debris or foreign material.
- Step 2. Cut the oakum/foam into various sizes to meet the requirements of the joint.
- Step 3. Pour #202 into a clean/dry pail. Soak the oakum/foam until saturated.
- Step 4 Remove oakum/foam and submerge in water for approximately 5-10 seconds. Then hold material out of the water until it starts to foam.
- Step 5. Place the oakum/foam into the joint.

PROPERTIES OF #202 MULTIGROUT

Appearance	Dark Brown Liquid	
Viscosity	2500 cps	@75ºF
Weight Per Gallon	9.53	
Flash Point	200ºF	

Cured Foam Test Results * 1 : 1 Ratio

Tensile Strength	ASTM D-3574	20 psi
Elongation	ASTM D-3574	190%
Tear Resistance	ASTM D-3574	4.93 lbs./ Inch

Mix Ratio	Foam Time	General Properties
1:1	1Min. 50 sec.	Foam
2:1	2 Min. 50 sec.	Expansive Gel
6:1	8 Min. 10 sec.	Weal Gel
50:1		Emulsion

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

Using a blunt instrument, drive the oakum/foam further into the joint. The material will continue to foam until the joint is sealed. If the joint is dry, spry with water before inserting the oakum/foam.

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 #202 [neat] at 250 psi. Increase the pressure as needed to gain full penetration. Always use the lowest pressure possible to inject the crack. **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

- 10.5 oz. Single cartridges [fits standard caulking gun] packed 24 per case.
- 1 gallon cans
- 5 gallon pails

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 construed to be a recommendation to use or as a license to operate under or to infringe any existing patents.

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