Technical Datasheet

Rock Grout 9200

Two-component, low viscosity, high-strength polyurethane injection resin

Description

Rock Grout 9200 is an extremely thin, high-strength, fast-reacting polyurethane injection resin that forms a dense, hard fill material required for anchoring and binding aggregate rock. It is not recommended for extremely wet, saturated situations. (See Limitations.) Rock Grout is a two-component, low viscosity, high-density structural polyurethane injection resin recommended for permeation grouting of high-aggregate substrates, including sandy soils.

Primary Applications

- Highways, roads and bridges
- Mines
- Tunnels
- Earthen dams
- Excavation pits
- Seawalls
- Foundations

Advantages

- High strength
- Low viscosity
- Hydro insensitive
- Bonds with soil and concrete

Packaging

- 100 gallon units
- 660 gallon units

Technical information: Physical properties at 73°F (23°C) - Liquid

Properties will vary depending upon site conditions, application method, mixing method and equipment, material temperature, and curing conditions.

Solids content: 100%

Viscosity: 190-200 centipoise

Note: Viscosity scale for Prime Resins products: 50 and under= super low, 51-100= very low, 101-400= low, and 401-1000= moderate viscosity.

Physical Properties - Cured	Results	Test Method
Compressive strength	10,000 psi	ASTM D-1621
Density	75 lbs/cubic ft	ASTM D-1622
Tensile strength	4,800 psi	ASTM D-1623
Elongation	3% or less	ASTM D-3574
Water absorption	0% - 24HR data	
Flash point	255°F (124°C)	
Cured toxicity	Inert	

Reaction times	
Initial reaction time	5 minutes
Final set time	24 hours
Manufacturer's recommended air injection temperature range	40 to 130°F (4 to 54°C)

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Accessory Products

Eco Flush, soil probes, pumps, pipe jack

Directions For Use

Mixing Ratio: A:B 1:1 by volume

Pre-mix each component prior to dispensing. Failure to properly pre-mix will result in uncured or improperly cured material. Material sets too fast to batch mix.

Material Preparation: Store material overnight to precondition to between 70 and 80°F (21 and 27°C) prior to use. Pre-mix each component prior to combining. "B" component contains chemicals that settle over time. Failure to properly pre-mix will result in uncured or improperly cured material.

Limitations: Cold temperatures will slow down reaction time and increase viscosity. pH below 3 or above 10 may adversely affect foam properties. This resin will react with water. Reacting grout that comes into contact with water will result in a structurally weakened foamed product. This foaming will persist until all excess water has reacted. Subsequent injections may then be able to cure out to the proper compressive strength. For this reason, it is not recommended for high moisture content and/or saturated soils.

Storage & Clean Up

Storage: Store in dry environment between 40º and 80ºF (4 - 27ºC). Shelf Life: 18 months from date of manufacture in unopened containers properly stored.

Clean Up: Flush injection equipment with Prime Flex Eco Flush. Clean off of skin with soap and water. Remove cured material by soaking in Prime Flex CGC (not appropriate for contact with plastic).

Environmental Protection

Cured material is environmentally safe. Dispose of in according to appropriate regulations. Clean up any spilled catalyzed liquid material and add a small amount of water to cure unreacted material.

Shipping

Shipping Class: Motor Freight Class 60

Hazard Classification: Not Hazardous

Health & Safety

Safety: Use OSHA-approved personal protective equipment (PPE), including safety glasses, gloves and confined space equipment/procedures if applicable. Avoid skin contact; do not ingest. See SDS for complete safety precautions. For professional use only

First Aid

Eye Contact: Immediately flush with large amounts of water. Seek medical attention. **Inhalation:** Move to fresh air if symptoms occur. If breathing is difficult, seek medical attention. **Ingestion:** Seek medical attention immediately. **Skin Contact:** Wipe off contaminated area and wash with soap and water immediately.

Manufacturing

Products are manufactured by Prime Resins, Inc. in the U.S.A. under strict quality assurance practices at our Conyers, GA plant.

Warranty & Disclaimer

Prime Resins, Inc. warrants its products to be free from manufacturing defects and that products meet the published characteristics when tested in accordance with ASTM and Prime Resins standards. No other warranties by Prime Resins, Inc. are expressed or implied, including no warranty of merchantability or fitness for a particular purpose. Prime Resins, Inc. will not be liable for damages of any sort resulting from any claimed breach of warranty. Prime Resins' liability under this warranty is limited to replacement of material or refund of sales price of the material. There are no warranties on any product that has exceeded the "shelf life" or "expiration date" printed on the package label.

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