

Urethane Gel HF

Hydrophobic
Urethanes

DESCRIPTION

Urethane GEL HF is a hydrophilic chemical grouting compound designed for use in sanitary sewer joint sealing, manhole water control, storm sewer sealing and soil consolidation. **Urethane GEL HF** is **non-flammable VOC compliant** liquid which mixed with water, forms an impermeable gel mass. It is environmentally safe and inert after curing. **Urethane GEL HF** is a multi ratio polyurethane, which will penetrate any water permeable soil. The cured material is a very effective water barrier. Two accelerators are available: one for the grout side **Urethane GEL HFacc** and one for the water side **Urethane GEL HFaccW**. **Urethane GEL HF** can be used in combination with reinforcing agent to enhance the strength of the gel mass.

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Accessories

Please read the **MSDS** literature, prior of usage of the product. Use this product only in well ventilated area. Eye and skin contact should be avoided.

Urethane Grout
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PHYSICAL PROPERTIES

Uncured

Urethane GEL HF

Solids	78%	ASTM D-1259
Viscosity	600 cps± 200 @ 68°F	ASTM D-4889
Flash Point	225 °F	ASTM D-93
Color	Yellow	

Urethane GEL HFacc

Viscosity	6 cps @ 68 °F	ASTM D-4889
Flash Point	138 °F	ASTM D-93
Appearance	Yellowish	

Urethane GEL HFaccW

Viscosity	5 cps @ 70 °F	ASTM D-4889
Flash Point	350 °F	ASTM D-93
Appearance	Almond	

Urethane GEL HF Reinforcing Agent

Viscosity	20-50 cps @ 70 °F
Flash Point	212 °F
Appearance	Whitish

Soil Stabilization

Waterproofing

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Cured material is resistant against normal sewer effluents.

Tensile Strength 22 - 34 psi (w/10% Reinforcing Agent) ASTM D-3574 Test E
 (mixing ratio 6:1) 28 - 49 psi (w/20% Reinforcing Agent)
Curing Time 50 seconds at 70 °F (ph=7)

Influence of pH The curing time increases with decreasing pH values. When highly alkaline (pH>10) or strongly acidic (pH<3) media, no gelification is formed.

Shrinkage No shrinkage was observed after one week at 70 °F and relative humidity of 100%.

Compressive Strength in Soil

Mix ratios: 1:1 375 psi
 1:6 202 psi

STORAGE

Store in dry areas using original container. Keep away from water and humidity. Maintain spouts closed.

PROCURABLE

Urethane GEL HF comes in a 5 gallon container.

Urethane GEL HFacc comes in a 0.25 gallons container.

Urethane GEL HFaccW comes in a 0.5 gallons container.

Urethane GEL HF Reinforcing Agent comes in a 1 gallon container.

Urethane grouts are packaged under dry nitrogen to keep moisture out , for extended shelf life.

PRODUCT SAFETY

Urethane GEL HF is polyisocyanate end-capped with Toluene Diisocyanate. Please read the MSDS literature, prior of usage of this product. Use this product only in well ventilated area. Eye and skin contact should be avoided .

PRODUCT WARRANTY

The recommendations and suggestions given in this report are made without any representation or warranty, as they are represented for your own investigation and verification. Products discussed are sold without warranty, expressed or implied, in law or fact and upon the condition that purchasers make their own tests to determine the suitability of such products for their particular purposes. Manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. Manufacturers will not be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of or inability to use the product. Users should consider this data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers.

Rev. 041999

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