PREPRUFE® Grout EG 75 (US Version)

Three part epoxy grout for waterproofing of pile heads

Product Description

PREPRUFE® Grout EG 75 is a high performance, solvent free, impermeable epoxy grout for maintaining the continuity of PREPRUFE® waterproofing systems at pile heads and similar structural penetrations. The product comprises of a base epoxy resin, an epoxy hardener and graded mineral aggregates. The three components are supplied pre-measured for easy onsite mixing at the correct ratio.

Uses

- Waterproofing of pile heads and pile caps
- Waterproofing of structural penetrations through PREPRUFE® waterproofing systems
- Application thickness range 1/2" (13mm) – 3" (75 mm)

System Components

To achieve continuity of PREPRUFE® waterproofing systems at pile heads and similar structural penetrations, the following system components are needed.

- BITUTHENE® Liquid Membrane – high performance, liquid membrane
- PREPRUFE® 300R or 300R Plus sheet membrane
- PREPRUFE® Tape for sealing of laps in PREPRUFE® sheet membranes

Consult with your GCP Applied Technologies technical representative for guidance on proper detailing.

Product Advantages

- Compatible with all products in the PREPRUFE® sheet waterproofing system
- Impermeable
- High bond to substrate
- Rapid strength gain
- High compressive, flexural and tensile strengths
- Fluid consistency
- Solvent free
- No segregation or shrinkage
- Highly resistant to acids, alkalis, common salts and sulphates
- Easy mixing and placing
Applications

Surface Preparation:

All surfaces to be in contact with PREPRUFE® Grout EG75 shall be free of oil, grease, laitance and other contaminants. Concrete must be clean, sound and roughened to ensure a good bond. For optimum adhesion, concrete should be visibly free of surface moisture. Remove rust from any reinforcement that will be in contact with the epoxy grout.

Formwork:

Formwork may be utilized for more accurate placement and is required to be constructed at vertical surfaces to obtain minimum 1/2-inch thickness. Formwork shall be constructed of a rigid, non-absorbent material, and caulked liquid tight. All removable formwork should be coated with polyethylene film or wax release agent, before the grout is placed.

Contact your GCP Applied Technologies technical service representative for further information

Mixing and Placing:

For optimum performance, all components should be conditioned to between 70°F and 80°F (21°C and 27°C) prior to use. Using a clean metal pail, pour component A into the pail. Add component B and mix using a clean paddle mixer and slow speed drill (max 400 rpm) for two minutes. Heat is generated when components A and B are mixed and temperatures will increase with time. Therefore, the full contents of component C is required to be slowly added immediately after mixing components A and B. Mix continuously and scrape unmixed material from the side and bottom of pail with a trowel. Mix for a minimum of three minutes or until a flowable homogenous consistency is achieved.

Working time is approximately 30 minutes when temperatures are at 70°F (21°C). Pour the grout from the pail into the forms continuously. If more grout is required, mix the next unit while the first is being poured to enable continuous placement. Finish with a trowel where necessary.

Grout temperature shall be maintained above 50°F until grout reaches the required strength.

Cleaning:

All tools and equipment may be cleaned with a water and strong detergent solution or suitable solvent before material hardens. Sand may be used as an abrasive.

Re-profiling Grout:

Where the use of cementitious re-profiling grout is necessary, use PREPRUFE® Grout CEM 100 or other equivalent repair or re-profiling mortar. Do not use site batched sand/cement mortars.
Health and Safety

Users must read and understand the product label and Safety Data Sheets (SDSs) for each system component before use. All users should acquaint themselves with this information prior to working with the material. Carefully read detailed precaution statements on the product labels and SDSs before use. The most current SDSs can be obtained from the GCP web site at gcpat.com or by contacting GCP toll free at 1-866-333-3SBM (3726).

Supply and Storage

PREPRUFE® Grout EG75 is a three-component system consisting of resin, hardener and aggregate packaged separately in a pail, and is available in a unit yielding approximately 0.50 cubic feet (14.2 liters) of hardened material.

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>TYPE</th>
<th>PACKAGING</th>
<th>UNIT SIZE</th>
<th>THEORETICAL COVERAGE AT ½ INCH THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Mixed</td>
<td>Epoxy base resin</td>
<td>Metal can</td>
<td>0.50 cu.ft</td>
<td>12 ft²</td>
</tr>
<tr>
<td>A</td>
<td>Epoxy hardener</td>
<td>Metal can</td>
<td>9.5 lbs.</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Filler</td>
<td>Heavy duty paper bag</td>
<td>50 lbs.</td>
<td></td>
</tr>
</tbody>
</table>

Store unopened in original packaging in cool, dry conditions out of direct sunlight and remote from direct heat sources. Shelf life in these conditions is 12 months from date of manufacture.

Physical Properties

<table>
<thead>
<tr>
<th>PREPRUFE® GROUT EG-75</th>
<th>TYPICAL VALUE</th>
<th>TEST METHOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness range</td>
<td>1/2 – 3 in</td>
<td></td>
</tr>
<tr>
<td>Flow at 73°F</td>
<td>9.8 in</td>
<td>ASTM C 230</td>
</tr>
<tr>
<td>Flow at 113°F</td>
<td>11 in</td>
<td>ASTM C 230</td>
</tr>
<tr>
<td>Pot Life at 73°F</td>
<td>45 mins</td>
<td>ASTM C 308 (modified)</td>
</tr>
<tr>
<td>Pot Life at 113°F</td>
<td>30 mins</td>
<td>ASTM C 308 (modified)</td>
</tr>
<tr>
<td>Peel Adhesion to PREPRUFE® membrane</td>
<td>&gt; 4 pli</td>
<td>ASTM D 3330</td>
</tr>
<tr>
<td>Compressive strength 7 day at 73°F</td>
<td>11,000 psi</td>
<td>ASTM C 579</td>
</tr>
<tr>
<td>Flexural Strength 7 day at 73°F</td>
<td>3800 psi</td>
<td>ASTM C 580</td>
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<tr>
<td>Tensile strength 7 day at 73°F</td>
<td>2200 psi</td>
<td>ASTM C 307</td>
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<tr>
<td>Bond strength to concrete 7 day at 73°F</td>
<td>365 psi</td>
<td>ASTM D 4541</td>
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<tr>
<td>Fresh Mixed Density</td>
<td>4.6 lbs/gal</td>
<td>ASTM C 905-79</td>
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<tr>
<td>Water penetration</td>
<td>None</td>
<td>BS 12390-8</td>
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</table>
Rapid Chloride Permeability: None

**Note:** All test results shown in this data sheet are determined under laboratory conditions, using product samples taken from inventory in original packaging, without alteration or modification.