Technical Datasheet

Glassbond Sauereisen Cement No. 315 Paste

Characteristics

- Adheres to practically all surfaces that are clean and free of oil and grease
- Resists oil, electricity and most solvents
- Heat conductive and thermal shock resistant
- Withstands temperatures to 1750°F (954°C)
- Resists all acids (except hydrofluoric)
- Fireproof and gasproof

Recommended For

- Lighting Assembly
- Insulating
- Moulding
- Potting
- Refractories
- Sealing

Description

Cement Paste No. 315 is a off white, porcelain-like cement paste that is widely used throughout industry in a variety of applications including assembling, sealing, insulating and cementing of ceramics, porcelain, metal and glass.

Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Absorption</td>
<td>13.8%</td>
</tr>
<tr>
<td>Bond Strength</td>
<td>200 psi (14 kg/cm²)</td>
</tr>
<tr>
<td>Coefficient of thermal expansion</td>
<td>6.5x10⁻⁶ in/in/°F (11.3 x 10⁻⁶ cm/cm/°C)</td>
</tr>
<tr>
<td>Colour</td>
<td>Off white</td>
</tr>
<tr>
<td>Compressive strength</td>
<td>3500psi (246.1 kg/cm²)</td>
</tr>
<tr>
<td>Density</td>
<td>121pcf (1.94 gm/cm³)</td>
</tr>
<tr>
<td>Dielectric constant</td>
<td>5.0-7.0</td>
</tr>
<tr>
<td>Flexural strength</td>
<td>455 psi (31 kg/cm²)</td>
</tr>
<tr>
<td>Linear shrinkage</td>
<td>0.004 in/in (0.004 cm/cm)</td>
</tr>
<tr>
<td>Maximum service temperature</td>
<td>1750°F (954°C)</td>
</tr>
<tr>
<td>Shear strength</td>
<td>430 psi (30 kg/cm²)</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>400 psi (28 kg/cm²)</td>
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</tbody>
</table>

Physical properties were determined on specimens prepared under laboratory conditions using applicable ASTM procedures. Actual field conditions may vary and yield different results; therefore, data are subject to reasonable deviation. Data should not be used for specification purposes.

Application/Instructions

MIXING - Cement Paste No. 315 should be thoroughly remixed to a smooth, uniform consistency prior to use. If necessary, Thinning Liquid No. 14 can be used where the cement is required in a more fluid consistency. Minimal amounts of extra liquid should be used as excess liquid will reduce mechanical strength, increase shrinkage and delay set time.

APPLICATION - Surfaces to receive the cement should be clean and free of grease and dirt. Porous substrates should be dampened slightly with Thinning Liquid No. 14 prior to application. Cement Paste No. 315 is air setting and should be used in thin applications. Avoid applying in a thickness more than ¼ inch. If necessary, multiple coats may be applied to build thickness. Placement of the cement may be done by brushing, dipping or spraying.
**Setting/Curing**

Cement Paste No. 315 cures by air drying at room temperature. Drying time depends on the consistency and thickness of the application. Normally 18-24 hours drying at ambient temperature is sufficient. A heat cure is also suggested where humidity resistance is required. In addition, a moisture-resistant lacquer or silicone coating may be applied to the exposed surfaces.

**Cleaning**

All equipment should be cleaned with soap and water before No. 315 cures. If removal is required after cure, consult Glassbond.

**Packaging**

This material is supplied in various types and sizes of containers. Please contact Glassbond Sales for further details.

**Shelf Life**

Cement Paste No. 315 has a shelf life of six (6) months when stored in unopened, tightly sealed containers in a dry location at 21°C (70°F). Material should be periodically rotated to prevent settling prior to use. Avoid freezing. If there is doubt as to the quality of the material, consult Glassbond.

**Caution**

Consult the Material Safety Data Sheets and container label caution statements for any hazards in handling this material.

**Warranty**

We warrant that our goods will conform to the description contained in the order and that we have good title to all goods sold. WE GIVE NO WARRANTY, WHETHER OF MERCHANTABILITY, FITNESS FOR PURPOSE OR OTHERWISE, EXPRESS OR IMPLIED, OTHER THAN AS EXPRESSLY SET FORTH HEREIN. Users shall determine the suitability of the product for intended application before using.

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