BONDiT™ A-37
Bonding Agent, Primer and Adhesive

Powerful reactant
Promotes chemical reactions with polymers previously considered non-reactive, and bonding with many dissimilar polymers: silicone, polyolifins, UHMW PE, PEI.

Bonding agent and additive
A primer coating on metals, glass and ceramics and dissimilar polymers for adhesion of thermoplastics, thermoset, and rubbers, particularly for silicone rubber.

Moisture resistant
Creates polymer and adhesive bonds that are highly moisture and corrosion resistant. Outstanding performance in high pH environments. Operational temperatures 200 °C. Nearly optically clear coating.

Harsh environments
Marine, Industrial, Downhole oil, Underwater, Mining, Automotive, Medical.
**Description**

**BONDIT™** A-37 is a high performance, high temperature moisture resistant, primer, adhesive, adhesion promoter and additive used with metals, glass & ceramics, elastomers and polymers. **BONDIT™** A-37 offers a wide range of capabilities for promoting moisture resistance chemical bonding between minerals and polymers, as well as dissimilar polymers. It is used as a primer coat and additive for other **BONDIT™** coatings and encapsulants. **BONDIT™** In particular A-37 may be used as a primer to promote adhesion to silicone rubber and for vulcanizing silicone rubber to many substrates.

**Curing Guide**

A wide range of curing regimes may be employed. Typical cure is 150°C (302°F) for 5 minutes. As an adhesive for bonding silicone rubber apply liberally to the substrate, allow to dry 15 minutes; jig the silicone rubber component to maintain intimate contact with the primer, then heat for 1 hour a 200 deg F. For vulcanizing silicone rubber to a substrate, apply liberally to substrate and allow to dry for 15 to 30 minutes; then vulcanize silicone to the primed surface. For some substrates the first coat may be absorbed somewhat; in such case apply a second coat before vulcanization. May be brushed, sprayed, or poured. Wetting qualities are superior, even on non-polar surfaces.

**Storage**

The usable shelf life of unopened containers of **BONDIT™** A-37 resin is one year, and should be stored in cool, dry place. When not in use, containers should be kept tightly closed. **BONDIT™** A-37 is available in syringes and cartridge, bulk container, and custom packaging.

**Typical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Viscosity @ 25°C, ASTM D445</td>
<td>4.5-8.5</td>
</tr>
<tr>
<td>Specific gravity, ASTM D1298</td>
<td>1.018-1.038</td>
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<tr>
<td>Refractive index, ASTM D1218</td>
<td>1.4420-1.4480</td>
</tr>
<tr>
<td>Color</td>
<td>Clear with stray color</td>
</tr>
</tbody>
</table>

**Information**

For further information, engineering support and sales service, contact the **RELTEK** sales office.