FULASEALPRO 300 PREMIUM SILICONE

Description
FulasealPRO 300 Premium Silicone is a premium grade, neutral cure, 100% silicone sealant specially formulated for use in glazing and industrial fabrication where a premium quality, non-corrosive sealant is required. FulasealPRO 300 Premium Silicone combines a high level of resistance to weathering with excellent adhesion, flexibility and durability. FulasealPRO 300 Premium Silicone can also be used as an adhesive where a highly flexible, high temperature resistant bond is required.

Benefits
- Permanently flexible
- Fast skimming
- Low sag
- Low shrinkage
- Neutral cure
- UV and weather resistant
- One part, ready to use
- +/-30% joint movement capability
- Low VOC - <30g/L (Directive 2010/75/EU)

Uses
- Glass partitions
- Sealing glass block structures
- Glazing and waterproofing of skylights
- Sealing laminated glass
- Non Structural weather sealing of curtain wall facades
- Sealing roofs, gutters, tanks and silos
- Sealing and insulating of electrical services
- Filling channels and sealing lap joints in metal fabrication

Compatible Substrates

<table>
<thead>
<tr>
<th>Material</th>
<th>Substrate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass</td>
<td>Concrete</td>
</tr>
<tr>
<td>Aluminium</td>
<td>Some plastics (test)</td>
</tr>
<tr>
<td>Ceramic</td>
<td>Fibreglass</td>
</tr>
<tr>
<td>Steel</td>
<td>Non-oily Timber</td>
</tr>
<tr>
<td>Coated Metals</td>
<td>(pre-test)</td>
</tr>
</tbody>
</table>

Performance Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Gravity</td>
<td>Trans=ca.1.01, Grey=ca.1.37, Black=ca.1.01, White=ca.1.01</td>
</tr>
<tr>
<td>Sag</td>
<td>Nil</td>
</tr>
<tr>
<td>Skinning Time</td>
<td>ca. 10-15 min, 23°C, 50% RH</td>
</tr>
<tr>
<td>Cure Rate</td>
<td>2 mm / day</td>
</tr>
<tr>
<td>Joint Movement Capability</td>
<td>+/- 30%</td>
</tr>
<tr>
<td>Shore A Hardness</td>
<td>ca.30 (ASTM D 2240)</td>
</tr>
<tr>
<td>Service Temperature</td>
<td>-40°C to 150°C</td>
</tr>
<tr>
<td>Application temperature</td>
<td>5°C to 35°C</td>
</tr>
<tr>
<td>Elongation (ISO 37)</td>
<td>ca. 450%</td>
</tr>
<tr>
<td>Modulus – 100%</td>
<td>ca. 0.4MPa</td>
</tr>
<tr>
<td>Modulus - Max</td>
<td>ca. 1.30MPa</td>
</tr>
<tr>
<td>Elastic Recovery</td>
<td>85%</td>
</tr>
</tbody>
</table>

Our Focus is Clear. Perfecting Adhesives.

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Coverage

300g cartridge will give approximately 15 lineal meters of a 5mm bead.

<table>
<thead>
<tr>
<th>Joint Width (mm)</th>
<th>Joint Depth (mm)</th>
<th>Yield (Linear mtrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>5</td>
<td>12</td>
</tr>
<tr>
<td>10</td>
<td>10</td>
<td>3</td>
</tr>
<tr>
<td>15</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>20</td>
<td>10</td>
<td>1.5</td>
</tr>
<tr>
<td>20</td>
<td>5</td>
<td>6</td>
</tr>
</tbody>
</table>

Surface Preparation

All surfaces must be clean, dry, sound and free of dust, oil, old sealant or other contamination. Lightly contaminated surfaces should be wiped with Isopropyl Alcohol (IPA) using the 2-rag wipe method. Apply IPA to a clean lint-free cloth and wipe onto the surface to be cleaned to solubilise and remove the majority of the contaminant. A clean dry cloth should then be applied to remove remaining contamination and dry the surface. Ensure wet cleaner is not allowed to dry on surface.

For more heavily contaminated surfaces or where the IPA does not remove the contaminant, a generic wax and grease remover should be applied using the same 2-rag wipe method. Once this has been completed the surface should be given a final clean with IPA using the 2-rag wipe method to ensure the surface is adequately prepared. Adhesion to metals and some surface finishes can be further improved by light abrasion prior to cleaning with IPA using the 2 rag-wipe method. For glazing applications IPA should be used to clean and prepare the surface.

Manufacturers of plastics should be consulted about suitable cleaning solvents. Adhesion to plastics should be pre-tested.

Mask either side of joint to produce a neat finish. Use a suitable sized foam backing rod or polyethylene bond breaker tape to prevent three sided joint contact impeding the free and even deformation of the sealant in a cyclic joint.

Product Application

Cut seal on top of cartridge. Screw on nozzle and cut to desired bead size. Hold gun at 45° angle. Push forward, squeezing trigger to gently fill joint. Within 5 minutes of application tool the sealant, ensure the sealant completely contacts the sides of the joint. If masking tape is used to produce a neat finish, remember to remove the masking tape before the sealant skins. Trim with a knife once cured, if needed.

Painting

Mask all areas not requiring sealant. Paint will not adhere to silicone. Complete any painting and allow to thoroughly dry before applying sealant.

Chemical Resistance

Resistant to water, salt water, grease, oils, fuels, defrosting liquid, detergents, aliphatic fats, mildew, weak acids and bases (pre testing required).

Curing

The rate of cure depends on the air temperature and humidity, the cross sectional area of the bead of sealant and the surface area of sealant exposed to the air.

At 23°C and 50% relative humidity cure rate is 2mm / 24 hours. In general, low humidity and/or low temperature will result in longer cure times. Thicker sections of sealant will have longer cure times.
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