Product Information

Dow Corning® 757
Weatherproofing sealant for Photocatalytic Clean Glass

Neutral, one-component, Si-hybrid based

APPLICATIONS
Low Modulus Sealant. Designed for weather sealing of most of the hydrophilic and photocatalytic clean glasses where high movement is expected and high weather resistance is required in order to withstand increased temperature and UV radiation.

TYPICAL PROPERTIES
Specifications writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales representative prior to writing specifications on this product.

<table>
<thead>
<tr>
<th>Method</th>
<th>Test</th>
<th>Unit</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uncured – As tested at 50% RH and 23°C (73°)</td>
<td>Working time</td>
<td>min</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Skin Over Time</td>
<td>min</td>
<td>75</td>
</tr>
<tr>
<td></td>
<td>Application temperature range</td>
<td>°C</td>
<td>5 to 40</td>
</tr>
<tr>
<td></td>
<td>Curing time</td>
<td>days</td>
<td>7-14</td>
</tr>
<tr>
<td></td>
<td>Specific Gravity</td>
<td></td>
<td>1.37</td>
</tr>
<tr>
<td></td>
<td>ISO 9048 Extrusion Rate</td>
<td>g/min</td>
<td>600</td>
</tr>
<tr>
<td></td>
<td>ISO 7390 Resistance to flow</td>
<td>mm</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

As cured – After 28 days at 50% RH and 23°C (73°)

| ISO 868 Durometer Hardness, Shore A | points | 20 |
| ISO 7389-B Elastic Recovery | % | 77 |
| ISO 8339-B Tensile stress at 100% elongation | MPa | 0.25 |
| ISO 8339-B Ultimate elongation at break | % | 247 |
| | Service temperature range | °C | -30 to 90 |

DESCRIPTION
Dow Corning® 757 Weatherproofing sealant for photocatalytic Clean Glass is a one part, neutral cure, architectural grade sealant. It easily extrudes and cures at room temperature by reaction with moisture in the air to form a durable, flexible rubber seal.

This Low Modulus sealant is specially designed for the weathersealing of most photocatalytic and hydrophilic clean glass surfaces where high movement is anticipated and high weather resistance is required in order to withstand increased temperature and UV radiation.

FEATURES
♦ Low Modulus
♦ Compliant with ISO 11600 G 25 LM
♦ Compliant with ISO 11 431
♦ Available in black, grey, white
♦ Odorless

BENEFITS
♦ Designed for use in direct contact with photocatalytic, hydrophilic glass and standard glass
♦ Excellent adhesion with typical photocatalytic and hydrophilic glasses as well as standard glass, aluminium, metal, painted and unpainted wood.
♦ Pre-approved compatibility with Dow Corning® SG and IG silicone sealants, here below: Dow Corning® 993, Dow Corning®895, Dow Corning® 3362, Dow Corning® 3793
♦ Ideal for expansion, connection, perimeter and other movement joints
♦ Very good combination of weather resistance and movement capability

COMPOSITION
♦ One part
♦ Neutral-cure sealant
♦ Si-hybrid
TECHNICAL SPECIFICATIONS AND STANDARDS
Dow Corning® 757 Sealant meets the following standards: conforms to ISO 11600 G 25 LM and ISO 11431.

JOINT DESIGN
The sealant joint should be designed so that the maximum expected sealant movement, including thermal, settlement and live load, does not exceed ± 20% in order to achieve a sufficient durability of the seal as well as if exposed unprotected to the weather conditions in facade applications.

When detailing the sealant joints using DOW CORNING 757, the following should be considered:
- The minimum width should be 6mm. For joints between 6-12mm wide a minimum seal depth of 6mm is required
- For joints above 12mm wide, a width to depth ratio of 2:1 should be used up to a maximum depth of 12mm
- Joints in excess of 25mm wide are possible but may require special application techniques. It is recommended that specific recommendations be obtained from Dow Corning for these special applications
- In applications where fillet type joints are to be used, a minimum of 6mm sealant bite is recommended for each substrate
- A sealant used in a fillet type joint will accommodate less movement that in a standard joint.

HOW TO USE
Joint Preparation
Clean all joint cavities, removing all foreign matter and contaminants from substrates such as grease, oil, dust, water, frost, surface dirt, old sealants or glazing compounds and protective coatings. Joints to be sealed should be dry and moisture free. Metal and painted surfaces should be cleaned by wiping with an appropriate solvent on a lint-free cloth.

Masking
It is recommended that the areas adjacent to the sealant joint be masked with an appropriate tape to prevent contamination of the substrate and to ensure a neat sealant line. Masking tape should be removed immediately after tooling and before the sealant starts to form a skin.

Primers
A primer may be required to promote adhesion on some substrates. Dow Corning recommends that a test sample be carried out prior to application. To confirm adhesion, testing should always be carried out prior to the commencement of any project. Please consult Dow Corning Building Envelop Manual or consult your local Dow Corning sales office for further advice.

Application method
Apply Dow Corning 757 and tool it within 30 minutes or before a cured skin forms to ensure good contact between the sealant and the substrate. Tooling of the sealant also gives a smooth professional finish. Remove the masking tape as soon as the bead is tooled. In areas where uncured sealant is inadvertently applied to adjacent surfaces, the sealant should be cleaned from surfaces before curing, using a good quality alcohol-based solvent (follow solvent manufacturer’s safe handling recommendations).

COMPATIBILITY
- Incompatibility with other components used in the joint design, i.e. sealant, backer rod, setting blocks, etc., may exist and cause negative effects, i.e. discoloration, loss of adhesion or other. To prevent this type of problem from occurring, Dow Corning offers a comprehensive technical support including drawing reviews of sealant detail, adhesion, staining and compatibility testing as well as site visits by technical personnel.
- Dow Corning® 757 is pre-approved for compatibility with Dow Corning® 5G and IG silicone sealants, as mentioned here below: Dow Corning® 993, Dow Corning®895, Dow Corning® 3362, Dow Corning® 3793 independent from any Lot-No or production batch which allows a safe and durable combination of these materials in a building design.

HANDLING PRECAUTIONS
Product safety information required for safe use is not included. Before handling, read product and safety data sheets and container labels for safe use, physical and health hazard information. The material safety data sheet is available on the Dow Corning website at www.dowcorning.com. You can also obtain a copy from your local Dow Corning sales representative or Distributor or by calling your local Dow Corning Global Connection, eutech.info@dowcorning.com.

USABLE LIFE AND STORAGE
When stored under normal conditions in the original unopened containers, this product has a usable life of 12 months from the date of production.

Oily residue may be present on top of the cartridge. Should this be the case, we recommend to first extrude that entire oily residue prior to any application.

PACKAGING
This product is available in cartridges of 310ml.

COLOR RANGE
Dow Corning® 757 is available in black, grey, and white.

LIMITATIONS
This product is not intended for use:
- As a structural glazing sealant or where the sealant is intended as an adhesive
- In spaces totally confined from atmospheric moisture during cure
- To surfaces in contact with food: this sealant does not comply with Federal Food and Drug Administration food-additive regulations
- In areas where abrasion and physical abuse are likely to be encountered
- For prolonged submersion in water or in below-grade applications
When used with non-typical photocatalytic or hydrophilic clean glasses, please consult your glass manufacturer for compatibility confirmation prior to use.

Due to the unique nature of the Dow Corning® 757 chemistry, the product surface remains tacky after cure and light colors, such as for example, white or grey, are known to age over time.

This will depend on the specific environmental conditions or exposures, but does not negatively affect the functionality of the product. This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

HEALTH AND ENVIRONMENTAL INFORMATION
To support Customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, www.dowcorning.com or consult your local Dow Corning representative.

LIMITED WARRANTY INFORMATION - PLEASE READ CAREFULLY
The information contained herein is offered in good faith based on Dow Corning’s research and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information shall not be used in substitution for customer’s tests to ensure that Dow Corning’s products are fully satisfactory for your specific applications.

Dow Corning’s sole warranty is that the product will meet its current sales specifications. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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