Product Information
High Performance Building

Dow Corning® 895 Structural Glazing Sealant

FEATURES & BENEFITS
- Meets European standards for structural glazing application, as developed by EOTA
- Excellent adhesion to a wide range of substrates including coated, enameled and reflective glasses and polyester coated aluminum profiles and stainless steel profiles
- Odorless and non-corrosive cure system
- One-component product
- Resistant to ozone
- Excellent stability through wide range of temperatures: -50°C to 150°C
- The cured product exhibits excellent weathering characteristics, and a high resistance to ultra-violet radiation heat and humidity
- High tensile strength makes it ideally suited for structural bonding applications

APPLICATIONS
- Dow Corning® 895 Structural Glazing Sealant is a one component silicone sealant used for structural glazing.

TYPICAL PROPERTIES
Specification writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

<table>
<thead>
<tr>
<th>Test*</th>
<th>Property</th>
<th>Unit</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>As supplied</td>
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<tr>
<td></td>
<td>Specific gravity</td>
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<tr>
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<td>Slump or flow</td>
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<tr>
<td></td>
<td>Tack-free time (25°C, 50% R.H.)</td>
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<td>Cure schedule (25°C, 50% R.H.)</td>
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<tr>
<td></td>
<td>- after 24 hours</td>
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<td></td>
<td>- after 72 hours</td>
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<td></td>
<td>(See also Optimal Glazing Conditions)</td>
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<tr>
<td></td>
<td>As cured - after 7 days at 25°C and 50% RH</td>
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<td>Tensile strength</td>
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<td>Sealant dynamic design load</td>
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DESCRIPTION
Dow Corning® 895 is a one-part neutral curing silicone sealant designed specifically for the structural bonding of glass, metal, and other building components.

It can also be used to adhere stiffening elements to building panels and for other similar adhesive applications.

Neutral alkoxy cures at room temperature on exposure to water vapour in the air, giving off a small amount of methanol.

TECHNICAL SPECIFICATIONS AND STANDARDS
Dow Corning 895 Sealant exhibits a high level of physical properties and
adhesive performances which are retained even after aging as detailed by EOTA (Ref: INV 96/BE.35).

CE Marked (ETA 01/005) as structural glazing sealant component according to ETAG002, the European Technical Guidelines for structural glazing with a level of attestation of 1. (external quality audit) valid in all EC countries.

Meets structural glazing sealant requirements according to PrEN13022, SNJF VEC and Vi-VEC.

INSTALATION
For structural glazing use, Dow Corning 895 Sealant should be factory-applied. Factory application helps ensure optimal sealing conditions and performance. Job-site application should only be carried out for remedial work, or when the glazing design does not allow otherwise.

This adhesive meets European Standard for structural glazing application the EOTA guidelines for SSGS.

Joint Design
As a general rule, structural sealant joints made with Dow Corning 895 Sealant should have a width between 6mm and 15mm. However, the exact width is determined by the structural calculations. The width (dimension y) of the structural sealant joint should also be calculated to accommodate thermal and dynamic movements but as a rule should not be less than 6mm.

Accessory selection
The appropriate selection of all accessories such as setting blocks and backing materials is of primary importance in avoiding discolouration or adhesion-related problems due to incompatibility. Dow Corning will also assess the suitability of proposed accessory materials as part of the standard testing services. Closed cell polyethylene foam is the recommended backer material for most joints. Silicone-based setting blocks are generally recommended for best compatibility.

Some typical examples of joint designs are shown in Figures 2 and 5.

Optimal glazing conditions
Ideally, all glazing should be done in factory and within the following conditions of temperature and humidity:

Temperature conditions: 5°C to 40°C
Humidity conditions: 40% to 95%

Recommended temperatures range: from 15°C to 30°C

Figure 1: Humidity cure envelope for Dow Corning 895 Sealant.

Any combination of the above conditions will ensure a cure schedule sufficient to allow transportation of the glazed modules within 21 days, depending on joint configuration. Consult Dow Corning for specific advice.

Preparatory work
Clean all joints and glazing pockets, removing all contaminants such as grease, oil, dust, water, frost, surface dirt, old sealant, or glazing compounds and protective coatings. Metal, glass and plastic surfaces should be cleaned by mechanical or solvent procedures. Where used solvent should be wiped on and off with clean, oil and lint free cloths.

Priming
Priming is not usually required when using Dow Corning 895 Sealant. However, it is essential that adhesion be tested prior to use. Specific primer recommendations will be made by Dow Corning Technical Services Department on a project basis. Please contact Dow Corning for further advice.

Masking and tooling
Areas adjacent to joints may be masked to ensure a neat sealant line. Do not allow masking tape to touch clean surfaces to which the sealant is to adhere. Tooling should be completed in one continuous stroke within 5 minutes after sealant application. Masking tape should be removed immediately after tooling.

Application method
Install the backing material, setting blocks and spacer tapes a specified. Apply Dow Corning 895 Sealant in a continuous operation using positive pressure to properly fill and seal the joint. Tool the sealant with slight pressure to spread it against the backing material and the joint surfaces. A tool with a concave profile is recommended to keep the sealant within the joint.

MAINTENANCE
No maintenance is needed. If sealant becomes damaged, replace damaged portion.

Dow Corning 895 Sealant will adhere to compatible cured silicone sealants which exhibits a clean knife-cut or abraded surface.

TECHNICAL SERVICES
Your Dow Corning contact details (e-mails):

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USABLE LIFE AND STORAGE
When stored at or below 30°C in the original unopened containers, Dow Corning 895 Sealant has a usable life of 12 months from the date of production.

PACKAGING INFORMATION
This product is available in 250kg drums, 20 liter pails, 310ml cartridges (12 per box) and 600ml sausages.

LIMITATIONS
Dow Corning 895 Sealant should not be used for structural applications without the prior written approval of Dow Corning Construction Industry Technical Services Department. Each project should be specifically and separately approved by Dow Corning.

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, dowcorning.com or consult your local Dow Corning representative.

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Typical Examples of Joint Design

Figure 2: System for 2-sided structural glazing.

Figure 3: System for 4-sided structural glazing.

Figure 4: Design with supported insulating glass unit.

Figure 5: Design with stepped insulating glass unit.

Legend
1. Insulating glass unit
2. Silicone structural seal (Dow Corning 895 Structural Glazing Sealant)
3. Silicone sealant spacer block
4. Silicone setting block
5. Aluminum profile
6. Backer rod
7. Structural sealant width
8. Structural sealant bite
9. Weatherseal dimension
10. Silicone weatherseal (Dow Corning® 791 Silicone Weatherproofing Sealant)
11. Silicone insulating glass seal (Dow Corning® 3362 Insulating Glass Sealant)