



Technical Data Sheet

DOWSIL™ 757 Weatherproofing Sealant

FEATURES & BENEFITS

- Low Modulus
- Compliant with ISO 11600 F&G 25 LM
- Available in black
- 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, aluminum, metal, painted and unpainted wood
- Pre-approved compatibility with Dow structural glazing and insulating glazing silicone sealants, here below:
 - DOWSIL™ 993 Structural Glazing Sealant
 - DOWSIL™ 895 Structural Glazing Sealant
 - DOWSIL™ 3362 Insulating Glass Sealant
 - DOWSIL™ 3793 Insulating Glazing Sealant
- 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

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

Specification Writers: These values are not intended for use in preparing specifications.

Test*	Property	Unit	Result
Uncured – As tested at 50% RH and 23°C (73°F)			
	Working time	min	30
	Skin Over Time	min	75
	Application temperature range	°C	5 to 40
	Curing time	days	7–10
	Specific Gravity	%	1.46
ISO 9048	Extrusion Rate	g/min	632
ISO 7390	Resistance to flow	mm	0
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	%	80
ISO 8339-B	Tensile stress at 100% elongation	MPa	0.35
ISO 8339-B	Ultimate elongation at break	%	250
	Service temperature range	°C	-30 to 90

*ISO: International Standardization Organization.

DESCRIPTION

DOWSIL™ 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.

TECHNICAL SPECIFICATIONS AND STANDARDS

DOWSIL 757 Sealant meets the following standards:
Conforms to ISO 11600 F&G 25 LM.

JOINT DESIGN

When detailing the sealant joints using DOWSIL 757 Sealant, the following should be considered:

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

Application method

Apply DOWSIL 757 Sealant 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 offers a comprehensive technical support including drawing reviews of sealant detail, adhesion, staining and compatibility testing as well as site visits by technical personnel.

DOWSIL 757 Sealant is pre-approved for compatibility with Dow structural glazing sealants and Dow insulating glazing sealants, as mentioned here below:

- DOWSIL 993 SG Sealant
- DOWSIL 895 Sealant
- DOWSIL 3362 Sealant
- DOWSIL 3793 Sealant

This compatibility is 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 IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT WWW.CONSUMER.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

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 INFORMATION

This product is available in cartridges of 290 ml.

COLOR RANGE

DOWSIL 757 Sealant is available in black.

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 DOWSIL 757 Sealant chemistry, the product surface remains tacky after cure.

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 has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

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

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

Dow's sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

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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