Dow Corning® 791 SiliconeWeatherproofing Sealant

FEATURES

- Ideal for expansion, connection, perimeter and other movement joints
- Neutral cure
- Low odor
- Conforms to ISO 11600-F&G-25LM
- Resistant to ozone, ultra-violet radiation and temperature extremes
- Joint movement capability +50%

Neutral silicone sealant

APPLICATIONS

Dow Corning® 791 Silicone Weatherproofing Sealant is a one-part, neutral curing, low modulus silicone sealant particularly suitable for general glazing and weather sealing in curtain wall and building facades.

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.

Test*	Property	Unit	Value
	Cure system		Alkoxy
	Application temperature	°C	-25 to + 50
		°F	-13 to + 122
CTM 97B	Specific gravity		1.50
CTM 364C	Extrusion rate	g/minute	220
CTM98B	Skin-over time	minutes	20
	(23°C or 73°F, 50% R.H.)		
CTM 95A	Tack-free time (23°C or 73°F, 50% R.H.)	minutes	30
CTM 663A	Cure rate (23°C or 73°F, 50% R.H.)		
	1 day	mm	2.0
	3 days	mm	4.0
	2mm thickness S2 dumb-bells (ISO** 37/DIN*** 53 504)		
CTM 137A	Modulus 100%	MPa	0.45
CTM 137A	Tensile strength	MPa	1.9
CTM 137A	Elongation at break	%	700
	12x12x50mm size T.A. joint (ISO 8339/DIN 2-8339)		
CTM 677	Modulus 100%	MPa	0.35
CTM 677	Tensile strength	MPa	0.75
CTM 677	Elongation at break	%	380
CTM 99E	Hardness (Shore A)		29
ISO 7389	Elastic recovery	%	>90
ISO 9047	Joint movement capability	%	±50

^{*}CTM: Corporate Test Method, copies of CTMs are available on request.

^{**}ISO: International Standardization Organization.

^{***}DIN: Deutsche Industrie Norm.

TECHNICAL SPECIFICATIONS AND STANDARDS

Conforms to SNJF, ISO 11600-F&G-25LM. DIN 18540 Class F.

HOW TO USE

Surface preparation

Ensure that surfaces to be sealed are clean, dry, sound and grease-free. Clean non-porous surfaced with *Dow Corning* R40 Universal Cleaner, and dry thoroughly with a clean, lint-free cloth before application of sealant. Porous substrates such as concrete, brickwork, mortar, etc. must be mechanically cleaned of loose particles using a steel brush, sanding disc or any similar means.

Note: When using any solvent, always provide adequate ventilation. Avoid heat, sparks and open flames. Use solvent resistant gloves. Observe and follow all precautions listed on solvent container label.

Masking

Areas adjacent to the joints should be masked with tape to prevent contamination of the substrates and to ensure a neat sealant line. Masking tape should be removed immediately after tooling.

Priming

Primers are not usually required but might be needed for some specific substrates for maximum adherence. Please contact us for technical assistance.

Back-up materials

Where back-up material is required, closed cell polyethylene backer rod is recommended. Back-up materials provide back pressure and avoid three sided adhesion that limits sealant movement capability.

Finishing

The joint should be tooled within 5 minutes of application to ensure good contact between the sealant and the substrate. Tooling of the sealant also gives a smooth, professional finish.

Clean-Up

Excess sealant may be cleaned off tools and non-porous surfaces whilst in an uncured state using *Dow Corning* R40 Universal Cleaner. If sealant is misapplied to porous substrates, it should be left until it is just cured and then removed by peeling, cutting or other mechanical means. Care should be taken not to damage plastic or coated surfaces.

JOINT DESIGN

The sealant joint width should be designed to accommodate the movement capability of the sealant. When designing joints using Dow Corning 791 Silicone Weatherproofing Sealant, the minimum width should be 6mm. For joints between 6-12mm wide, a seal depth of 6mm is required. For joints above 12mm wide, a width to depth ratio of 2:1 should be used. In situations where fillet joints are needed, a minimum of 6mm sealant bite to each substrate is recommended. For joint dimensions with a width greater than 25mm or a depth greater than 15mm, please contact one of Dow Corning s Regional Service Centers for technical assistance.

Figure 1: Deep joint

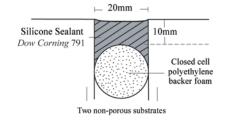


Figure 2: Shallow joint

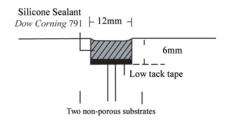
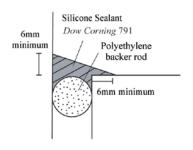


Figure 3: Fillet joint



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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 Web site at 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.

USABLE LIFE AND STORAGE

Dow Corning 791 Silicone Weatherproofing Sealant should be stored in cool and dry conditions.

When stored at or below 30°C (86°F) in the original unopened containers, *Dow Corning* 791 Silicone Weatherproofing Sealant has a usable life of 12 months from the date of production.

PACKAGING INFORMATION

Dow Corning 791 Silicone Weatherproofing Sealant is supplied in 310ml cartridges and 600ml sausages.

COLORS

Dow Corning 791 Silicone Weatherproofing Sealant is available in a broad range of colors. Please refer to the color chart for different options.

LIMITATIONS

Do not use Dow Corning 791 Silicone Weatherproofing Sealant on bituminous substrates, substrates based on natural rubber, choloroprene or EPDM or on building materials and flexible plastics which might bleed oils, plasticizers or solvents. Do not use Dow Corning 791 Silicone Weatherproofing Sealant in a totally confined space because the sealant requires atmospheric moisture to cure. Dow Corning 791 Silicone Weatherproofing Sealant is not recommended for use on submerged joints or in joints where physical abuse or abrasion is likely to occur. Bleeding can occur on porous substrates such as concrete, marble, granite or other natural stones. On sensitive substrates, specific testing should be carried

This product is not suitable for areas where food contact is likely.

Dow Corning 791 Silicone Weatherproofing Sealant is not recommended for structural glazing or insulated glazing applications.

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 Web site, dowcorning.com or consult your local Dow Corning 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 Corning'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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