



Technical Data Sheet

DOWSIL™ 789P+ Hybrid Paintable Sealant

A universal grade, general-purpose, all-weather hybrid sealant.

Features & Benefits

DOWSIL™ 789P+ is a high-quality, hybrid paintable sealant, combines the properties of both silicone and organics that make it an optimum choice as weatherseal for a variety of substrates including aluminum, granite, ceramics, marble, porcelain, metals, PVC, glass, wood, porous surfaces (concrete, brick, limestone, etc.) and where paintability is required.

- Good UV resistance
- Over-paintable with water-based paints
- No shrinkage and bubble free
- Non-sag, non-corrosive towards metal
- Easy to apply
- No surface tackiness
- Very low VOC content
- Paint in 3–7 days after the sealant application

Applications

DOWSIL™ 789P+ Hybrid Paintable Sealant specifically developed for:

- Sealing window and door perimeter, general sealing and waterproofing
- Roofing and gutter, concrete joints, metal building construction, HVAC applications
- Sealing expansion, connection and perimeter joints
- Sealing pre-cast panel, FCB panel joints

Typical Properties

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

Test ¹	Property	Unit	Result
Uncured — As Tested at 50% RH and 23°C			
	Curing System		Moisture
	Appearance		Thixotropic paste
EN ISO 2811-1	Density		1.61
ASTM C1183	Extrusion Rate	g/min	150

1. EN: European Norm
ASTM: American Society for Testing and Materials

Note: The above values are obtained typical lab conditions. These values are not for use in preparing specifications. Please contact Dow representative for specification values.

Typical Properties (Cont.)

Test	Property	Unit	Result
ASTM C1536	Sagging	mm	None
	Working Time	min	15
ASTM C679	Tack Free Time	min	35
	Application Temperature	°C	+5 to +40
As Cured — After 7 Days at 50% RH and 23°C			
ASTM D412	Tensile Strength	N/mm ²	1.5
ASTM D412	Elongation	%	400
ASTM D2240	Durometer Hardness, Shore A	points	40
	Temperature Resistance	°C	-40 to +90

Standards

Meets or exceeds the requirements of the following specifications:

- The requirements of VOC content specifications in LEED
- The French VOC requirements for class A+
- CE marked for EN 15651 for façade applications

How to Use

Please consult the technical manual. Please contact your local sales application engineer for specific advice.

Preparation:

Clean all joints, removing all foreign particles and contaminants such as grease, oil, dust, water, frost, surface dirt, old sealants or glazing compounds and protective coatings.

Application Method:

Install backing material or joint filler, setting blocks, spacer shims and tapes. Mask areas adjacent to joints to ensure neat sealant lines. Primer is generally not required on nonporous surfaces, but maybe necessary for optimal sealant of certain porous surfaces. A test placement is always recommended. Apply DOWSIL™ 789P+ Hybrid Paintable Sealant in a continuous operation using a positive pressure. (The sealant can be applied using many types of air-operated guns and most types of bulk dispensing equipment.) Before a skin form (typically within 10 minutes), tool the sealant with light pressure to spread the sealant against backing material and the joint surfaces. Remove masking tape as soon as the bead is tooled. Allow it to cure and perform adhesion tests as required to confirm on the performance. If painting needs to be done, apply paint after 3–7 days of sealant application.

Required Testing in the Application

It is the responsibility of the end user to thoroughly test any proposed use of the foam and independently conclude satisfactory performance in the application.

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 DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

Usable Life and Storage

When stored at or below 30°C in the original unopened containers, this product has a usable life of 12 months from the date of manufacture. Refer to product packaging for expiry date.

Packaging Information

This product is available in 290 ml disposable cartridges and in 600 ml foil sausages depending on location of purchase.

Limitations

DOWSIL™ 789P+ Hybrid Paintable Sealant is not approved for use as a structural sealant.

- When surface temperatures exceed 50°C (122°F)
- On surfaces that are continuously immersed in water
- On building materials that bleed oils, plasticizers or solvents, green or partially vulcanized rubber gaskets or tapes
- On frost-laden or wet surfaces
- In totally confined joints (the sealant requires atmospheric moisture for cure)
- To surfaces in direct contact with food or other food-grade 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 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, dow.com, or consult your local Dow representative.

Disposal Considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products — from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

dow.com

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