



Technical Data Sheet

DOWSIL™ 898 Strong Bond

A high strength paintable sealant and professional grade adhesive, suitable for bonding heavy building materials without the use of clamps and/or fixing tape.

Features & Benefits

DOWSIL™ 898 Strong Bond is one component, easy to use adhesive.

- High initial grab
- Good UV resistance
- No shrinkage and No bubble formation
- Excellent elasticity and good adhesion strength p
- Does not contain solvent, silicone or isocyanate
- Primerless adhesion on many different substrates (preliminary tests recommended)
- Can be applied at damp and wet surfaces
- Over-paintable with water-based paints

Applications

DOWSIL™ 898 Strong Bond specifically developed for:

- Wall cladding elements and ceiling panels
- Sound isolation panels (mineral wool, wood-wool cement & plastic foams)
- Thermal isolation panels (PUR, PIR, PS)
- Casings and frames in building construction
- Wooden and plastic laths, ornaments and frames
- Doorsteps, windowsills, skirting boards and cover plates

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			
	Appearance		Thixotropic paste
	Color	Visual	White, black or grey
EN ISO 2811-1	Density	g/ml	1.48
ISO 7390	Flow / Sag	mm	None
ASTM C679	Tack Free Time	min.	20

1. EN: European Norm
ISO: International Standardization Organization
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
As Cured – After 7 Days at 50% RH and 23°C			
ISO 868	Durometer Hardness, Shore A	points	55
ISO 37	Tensile Strength	N/mm ²	> 3
ISO 37	Elongation	%	> 300

Standards

Meets or exceeds the requirements of the following specifications:

- The requirements of VOC content specifications in LEED credit EQc4.1
- Low-emitting products” of SCAQMD rule 1168.
- The French VOC requirements for class A+
- CE marked for EN 15651 for façade applications

How to Use

DOWSIL™ 898 Strong Bond can be used for manual applications using a manual gun for cartridges or sausages. A general guideline for surface preparation to achieve good bonding is outlined below:

Surface Preparation

Substrates must be clean prior to application to ensure adhesion durability. All surfaces must be clean from contaminants and residues such as grease, oil, dust, water, frost, surface dirt, old sealants or glazing compounds and protective coatings. Solvent should be wiped on and off with clean, oil- and lint-free cloths.

For glass, degrease with alcohol or MEK. Aluminium, light alloys, and stainless steel should also be degreased with alcohol or MEK. Other metals need to be lightly abraded and then degreased as above. Wood surfaces should be lightly abraded and the dust removed. Plastics should be degreased using an agent recommended by the plastics manufacturer. Concrete and other alkaline surfaces should be brushed and the dust removed.

Before application, cut the tip of the cartridges and attach a plastic nozzle. Trim the nozzle's tip to match the width of the surface and secure it to the cartridge gun. Apply the adhesive in strips to the base or the element to be bonded, ensuring the strips are applied in vertical rows. Cut the nozzle to V-shaped in cartridges and sausages that will form a triangular bead which will lead to a final joint of 12 mm x 3 mm, ensuring proper contact and wetting of the surface. Assemble the parts to be joined as quickly as possible, ideally within 10 minutes, depending on the temperature and relative humidity. At this stage, the parts can still be adjusted. Finally, press them firmly together or tap with a rubber hammer.

Any adhesive that may protrude along the edges can be removed using a stopping knife. Adhesive residue that has not yet dried can be removed using white spirit or alcohol. Dried adhesive must be removed mechanically.

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 25°C in the original unopened containers, this product has a usable life of 9 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™ 898 Strong Bond must not be used for structural glazing applications in façade or as a sealant for insulating glass units.

DOWSIL™ 898 High Strength Paintable Sealant should not be used:

- 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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