

# Dow Corning® 772 Si-Hybrid Sealant Install&Go - Inner

## FEATURES

- Good unprimed adhesion to a variety of substrates
- Accommodates up to 25% joint movement
- Advanced Si-Hybrid formulation
- Does not contain volatile organic solvent or halogen
- Can be over painted

Neutral Si-Hybrid sealant

## APPLICATIONS

- *Dow Corning*® 772 Si-Hybrid sealant is a one part, chemically curing sealant based on the latest XAP technology. *Dow Corning* 772 Si-Hybrid sealant was specifically developed for the inner installation of PVC-U, Aluminum and Wood windows and is one of the three components of the unique Install&Go window Installation System.

## 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 Methods	Property	Unit	Result
	Cure system		Alkoxy
	Application temperature	°C	+5 to +40
		°F	+41 to +104
CTM 97B	Specific gravity		1.52
CTM 364C	Extrusion rate	g/minute	210
CTM 98B	Skin-over time (23°C or 73°F, 50% R.H.)	minutes	15
CTM 95A	Tack-free time (23°C or 73°F, 50% R.H.)	minutes	35
CTM 663A	Cure rate (23°C or 73°F, 50% R.H.)		
	1 day	mm	2.0
	3 days	mm	3.5
	<b>2mm thickness S2 dumb-bells (ISO 37/DIN 53 504)</b>		
CTM 137A	E-Modulus 100%	MPa	0.45
CTM 137A	Tensile strength	MPa	1.8
CTM 137A	Elongation at break	%	700
	<b>12x12x50mm size T.A. joint (ISO 8339/DIN 2-8339)</b>		
CTM 677	E-Modulus 100%	MPa	0.35
CTM 677	Tensile strength	MPa	0.75
CTM 677	Elongation at break	%	380
CTM 99E	Hardness (Shore A)		30
ISO 7389	Elastic recovery	%	>90
ISO 9047	Joint movement capability	%	±25

1. CTM: Corporate Test Method, copies of CTMs are available on request.

DIN: Deutsche Industrie Norm.

ISO: International Standardisation Organisation.

## TECHNICAL SPECIFICATIONS AND STANDARDS

Manufactured under ISO 9001.

## HOW TO USE

### Surface preparation

Ensure that surfaces to be sealed are clean, dry, sound and free from frost. Clean all joints of release agents, water repellents, laitance, dust, dirt, old sealants and other contaminants which could impair adhesion.

Non-porous surfaces should be cleaned and degreased by wiping with a suitable solvent such as *Dow Corning*® R40 Universal Cleaner on an oil and lint-free cloth before application of sealant. Porous substrates should be mechanically cleaned 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 may 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

No primer is required for PVC-U and for most common construction substrates including brick. However, a test placement prior to general use is always recommended. For specific advice, please refer to the *Dow Corning Primers' Guide* or contact one of *Dow Corning's* Regional Service Centers for technical assistance.

### Back-up materials

When used within the framework of the unique *Install&Go Window Installation System*, *Dow Corning 772* may be extruded on the *7Flex*® flexible window foam as shown in figure 1.1 (single wall). When gap between window and interior substrate is 1 mm or less, no back-up material is allowed as shown in figure 1.2 (double wall).

When **not** used within the *Install&Go Window Installation System*, closed cell polyethylene backer rod is recommended as a back-up material to provide back pressure and avoid three-sided adhesion that limits sealant movement capability (figure 2). Low tack polyethylene tape should be used

in joints too shallow to allow the use of backer rod (Figure 3).

### 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.

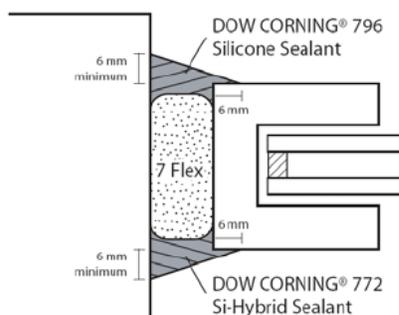
### Clean-up

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.

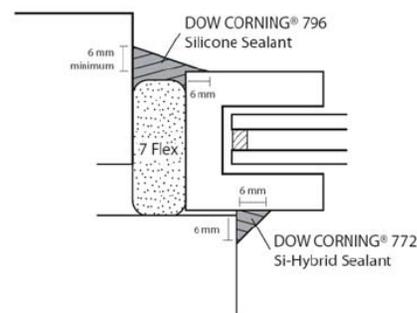
### Joint Design

The sealant joint width should be designed to accommodate the movement capability of the sealant. When designing joints using *Dow Corning 772* within the framework of the unique *Install&Go Window Installation System*, fillet joints are needed, and a minimum of 6mm sealant bite to each substrate is recommended (Figure 1.1 and 1.2) 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. For joint dimensions greater than 25mm, please contact one of *Dow Corning's* Regional Service Centers for technical assistance.

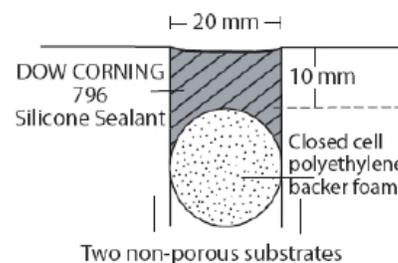
**Figure 1.1: Install&Go – Single wall**



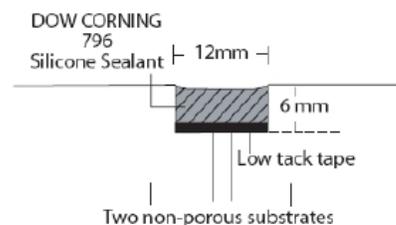
**Figure 1.2: Install&Go – Double wall**



**Figure 2: Deep Joint.**



**Figure 3: Shallow joint.**



## 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* website at [dowcorning.com](http://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 772 Si-Hybrid 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 772 Si-Hybrid Sealant* has a usable life of 12 months from the date of production.

## **PACKAGING INFORMATION**

*Dow Corning 772 Si-Hybrid Sealant* is supplied in 310ml cartridges packed in boxes of 12. It is supplied in white only as it can be overpainted to match every colour taste.

## **PAINTABILITY**

*Dow Corning 772 Si-Hybrid Sealant* can be overpainted with latex, oil and polyurethane based paints.

## **LIMITATIONS**

*Dow Corning 772 Si-Hybrid Sealant* is not recommended for structural glazing or insulated glazing applications.

Do not use *Dow Corning 772 Si-Hybrid Sealant* on bituminous substrates, substrates based on natural rubber, chloroprene or EPDM or on building materials which might bleed oils, plasticisers or solvents. Do not use *Dow Corning 772 Si-Hybrid Sealant* in a totally confined space because the sealant requires atmospheric moisture to cure. It is not recommended for use on submerged joints, or in joints where physical abuse or abrasion are likely to occur. Bleeding can occur on porous substrates, such as concrete, marbles, granites and other natural stones. Specific testing should be carried out on sensitive substrates.

*Dow Corning 772 Si-Hybrid Sealant* is not suitable for food contact applications.

It is recommended that *Dow Corning 772 Si-Hybrid Sealant* is not applied to surfaces that are below 5°C (41°F) as it is impossible to guarantee a dry surface at these temperatures.

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](http://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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**DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

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