Product Information

DOW CORNING

Dow Corning® 787 Glass & Metal Sealant Black

FEATURES

- Excellent adhesion to a variety of non-porous substrates
- High strength and good elasticity
- 100% silicone polymer
- Solvent-free
- Conforms to ISO 11600-G-20LM
- Resistant to ozone, ultra-violet radiation.

Acetoxy Silicone Sealant

APPLICATIONS

- *Dow Corning*® 787 Glass & Metal Sealant Black is a one-part moisture curing acetoxy silicone suitable for use across a broad range of applications. It combines a high strength and good elasticity with excellent adhesion to a variety of non-porous substrates such as glass, glazed ceramic tiles and aluminum. *Dow Corning* 787 Glass & Metal Sealant Black offers excellent resistance to aging, shrinkage, cracking and discoloring.

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	Result
	Cure system		Acetoxy
	Application temperature	°C	+5 to +40
		°F	+41 to +104
CTM[1]97B	Specific gravity		1.02
CTM364C	Extrusion rate	g/minute	210
CTM98B	Skin over time at 23°C (73°F) and 50% R.H	minutes	14
	Tack-free time 23°C (73°F), 50% R.H.	minutes	220
CTM663A	Cure rate 23°C (73°F), 50% R.H		
	1 day	mm	3
	3 days	mm	5
	2mm thickness S2 dumb-bells (ISO 37IDIN 53 504)		
	E-Modulus 100%	MPa	0.4 – 0.5
CTM137A	Tensile strength	MPa	1.8
CTM137A	Elongation at break	%	520
CTM137A	**12x12x50mm size T.A. joint (ISO 8339IDIN2-8339)**		
	E-Modulus 100%	MPa	0.4 – 0.5
CTM677	Tensile strength	MPa	0.60
CTM677	Elongation at break	%	190
CTM99E	Hardness (Shore A)		22
ISO[2]7389	Elastic recovery	%	>90
ISO 9047	Joint movement capability	%	±20

[1]CTM: Corporate Test Method, copies of CTMs are available on request.
[2]ISO: International Standardisation Organisation.

TECHNICAL SPECIFICATIONS AND STANDARDS

Conforms to ISO 11600-G-20LM

HOW TO USE

Surface preparation

Ensure that all surfaces 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. 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.

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
Adhesion to plastic and metal surfaces can be improved by using *Dow Corning*® 1200 OS Primer.

Back-up materials
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. Low tack polyethylene tape should be used in joints too shallow to allow the use of backer rod.

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 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* 787 Glass & Metal Sealant Black, 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. For joint dimensions greater that 25mm, please contact your Dow Corning Business Developer. In situations where fillet joints are needed, a minimum of 6mm sealant bite to each substrate is recommended.

Figure 1: Deep Joint

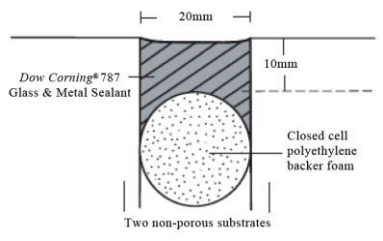


Figure 2: Shallow Joint

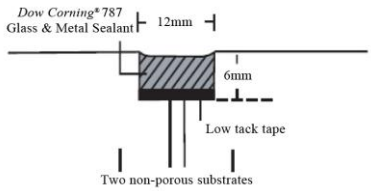
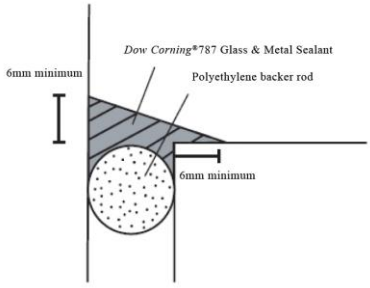


Figure 3: Fillet Joint



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 Web site at dowcorning.com.

STORAGE

Product should be stored at or below 30°C (86°F) in original, unopened containers. The most up-to-date shelf life information can be found on the XIAMETER® Web site in the Product Detail page under Sales Specification.

Dow Corning 787 Glass & Metal Sealant Black should be stored in cool and dry conditions.

LIMITATIONS

Dow Corning 787 Glass & Metal Sealant Black is not recommended for use on porous substrates, such as concrete, stone, marble or granite.

Do not use *Dow Corning* 787 Glass & Metal Sealant Black on bituminous substrates, substrates based on natural rubber, choloroprene or EPDM or on building materials which might bleed oils, plasticizers or solvents. Do not use *Dow Corning* 787 Glass & Metal Sealant Black in a totally confined space because the sealant requires atmospheric moisture to cure. Because acetic acid is released during curing, it can corrode mirror silver and sensitive metals such as copper, brass and lead. *Dow Corning* 787 Glass & Metal Sealant Black is not recommended for use on submerged joints or in joints where physical abuse or abrasion is likely to occur.

Dow Corning 787 Glass & Metal Sealant Black is not suitable for food contact applications.

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Dow Corning 787 Glass & Metal Sealant Black is not recommended for structural glazing or insulated glazing applications.

It is recommended that *Dow Corning* 787 Glass & Metal Sealant Black 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 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.

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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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