



Product Data Sheet

ASMACO 2781

Neutral One Component Silicone Based Acetic Cure Silicone Sealant

Description: ASMACO 2781 is a high-performance, single-component silicone sealant that cures with moisture at room temperature, forming a flexible and durable seal. It bonds well to nonporous surfaces like glass, ceramic tiles, and aluminum, making it ideal for construction and glazing. Resistant to UV rays, ozone, and extreme temperatures, it is also suitable for sanitary and cladding applications, offering easy application and long-lasting adhesion.



KEY PERFORMANCE PROPERTIES

- Simple, single-component formulation for easy application
- Rapid curing time
- Retains permanent elasticity
- Excellent adhesion without the need for a primer
- Low in VOC emissions
- Free from formaldehyde and asbestos, making it environmentally friendly
- Antifungal properties, ideal for use in sanitary and damp areas
- Cures at room temperature under normal humidity conditions.
- Strong adhesion to a wide range of non-porous surfaces, including glass, glazed ceramics, aluminium, masonry, and certain plastics
- Superior resistance to weather, moisture, ozone, UV rays, and extreme temperatures

STANDARDS

ASMACO 2781 has been tested and is classified:

- ISO 11600 F 25 LM, (previously known as BS 5889)
- ASTM C 920

AREAS OF APPLICATION

ASMACO 2781 is a versatile sealant suitable for a range of industries and projects, including:

- Non-structural glazing.
- Structural bonding of panel systems

- Sealing refrigerators and containers
- HVAC system applications
- Demanding sanitary environments
- Bonding panel stiffeners
- Building and construction joints
- Connecting and expansion joints

DIY Projects:

Ideal for various home repairs, offering strong adhesion to multiple materials and making it perfect for home improvement tasks.

METHOD OF APPLICATION

Surface Preparation:

- Thoroughly eliminate all dirt, dust, and remnants of old sealant.
- Clean the surface using a solvent-soaked white cloth to remove grease and impurities.
- Follow up with a dry, clean cloth to ensure no solvent or dirt remains.

Masking:

- Apply masking tape around the work area to achieve sharp, clean edges.
- Protect nearby surfaces to prevent excess sealant from causing messes and minimize clean-up.

Sealant Application:

- Cut the nozzle at a 45° angle, attach it to the cartridge, and load it into the caulking gun.
- Apply the sealant into the joint, ensuring complete coverage and proper adhesion on both sides.
- Ensure the sealant fully penetrates the joint rather than just covering the surface.

Finishing (Tooling):

- Smooth the sealant immediately with a finishing tool to achieve a uniform finish.
- Use a convex tool to keep the sealant contained within the joint and avoid spreading it too thin.
- Refrain from using water or soap during the tooling process.
- Once the sealant starts to set, avoid disturbing it for at least 48 hours.

Curing:

- Note that curing times may be longer in cooler temperatures, low humidity, or poor air circulation conditions.

Storage at Application Places:

- Avoid re-storing unused silicone sealant on-site after being kept for hours or left overnight in high or low temperatures, as this can degrade its performance properties.
- Ensure all material is fully utilized after pickup from controlled temperature storage to prevent any loss in effectiveness, such as debonding, loss of cohesiveness, and cracking.

Rev 01, TDS_ASMACO 2781 , GCC 0924



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PACKAGING / SUPPLYING

ASMACO 2781 is available in
280 ml Plastic Cartridge (24 Cartridges / Carton)

COVERAGE RATE

The approximate linear meter sealant consumption per liter can be estimated from the following formula:

$$\frac{W \times D}{1000}$$

= Sealant Consumption per linear meter per liter.

Where: W = Joint Width (mm), D = Joint Depth (mm)

Joint Size in mm	Liters/meter Run	280 ml/Cartridge meter run
4 x 4	0.016	17.50
6 x 6	0.036	7.70

CLEAN UP

Clean all the equipment immediately with ANCHOR CLEANER 1

TECHNICAL SPECIFICATIONS

PROPERTIES	TYPICAL VALUES	TEST STANDARDS
Color	Clear, White, Black & Others	—
Curing Mechanism	Acetic	—
Application Temperature	+5°C — +40°C	—
UV Resistant	300 hours	ASTM C 793
Density, g/m ³	1.00 ±0.02	ASTM D 1475
Skin Over Time	10 min (RT)	ASTM C 920 -18 / ASTM C 679 - 15
Curing rate	> 2 mm/day (23°C and 50% R.H)	—
Hardness Shore A	25 - 32	ASTM D 2240
Adhesion & Cohesion	No, Cracks, Loss of Adhesion	ASTMC 920 -18/ASTM C 719 -14
Elongation at Break	≥ 300 %	ASTM D 412
E 100 Modulus	≥ 0.50 N/mm ²	ASTM D 412
Tensile Strength	>1.20 N/mm ²	ASTM D 412

Properties listed are based on laboratory-controlled tests. All values given are subject to 5-10% tolerance.

Shipping Limitations: None

Note

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☎ : +971 6 5342091, ☎ : +971 6 5342107, P.O. Box No.: 21152

MFG. OF SILICONE , ACRYLIC & POLYURETHANE SEALANTS, WATER PROOFING COATINGS,
SELF - ADHESIVE TAPES, SPRAY PAINTS, CONTACT ADHESIVE, PVC CEMENTS, EPOXY STEEL

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📍 Industrial Area-15, Sharjah, U.A.E. 🌐 www.anchorallied.com ✉ info@anchorallied.com