



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.



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- 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.

PACKAGING / SUPPLYING

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

STORAGE & SHELF LIFE

ASMACO 2781 Store in cool place under cover, out of direct sunlight and protect from extreme temperatures. In tropical climate the product must be stored in air – conditioned environment < 25° C. The shelf life is up to 12 months in unopened conditions if stored as per guidelines.

QUALITY & CARE

All products originating from **ANCHOR ALLIED FACTORY LLC Sharjah, UAE**. facility is manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, and ISO 14001.

HEALTH & SAFETY

Protective clothing such as gloves and goggles should be worn while applying **ASMACO 2781** In case the material splashes to the skin or eyes wash the same with fresh water immediately.
In critical cases seek medical assistance.

CLEAN UP

Clean all the equipment immediately with **ANCHOR CLEANER 1**

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

Bead Size (mm)	Approximate Consumption (ml/rm)	Coverage per 280 ml Cartridge (Running Meter)
3 mm	7.1	39.6 m
4 mm	12.6	22.3 m
5 mm	19.6	14.3 m
6 mm	28.3	9.9 m
7 mm	38.5	7.3 m
8 mm	50.3	5.6 m
9 mm	63.6	4.4 m
10 mm	78.5	3.6 m
11 mm	95.0	2.9 m
12 mm	113.1	2.5 m

Note: Coverage values are theoretical and calculated for a round bead with 100% material utilization. Actual coverage may vary depending on joint dimensions, application technique, surface conditions, and wastage during application.

CERTIFICATIONS





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TECHNICAL SPECIFICATIONS

PROPERTIES	TYPICAL VALUES	TEST STANDARDS
Color	Clear, White, Black & Others	—
Curing Mechanism	Acetic	—
Application Temperature	+5°C — +40°C	—
Service Temperature	-50°C — +150°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	≥ 320 %	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.

Regional Compliance Notice

Please note that regulatory requirements may vary from one region to another. As a result, product information and recommended applications may differ between countries. For accurate and up-to-date details on product specifications and approved uses, and for any technical guidance, please contact Technical Department. Of ANCHOR ALLIED FACTORY L.L.C. SHARJAH, UAE.

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Users are responsible for verifying the product's suitability for the intended application and for conducting appropriate testing under actual project conditions. Product specifications may be amended without prior notice. All sales are subject to ANCHOR ALLIED FACTORY L.L.C. SHARJAH, UAE current Terms and Conditions of Sale and Delivery. Users must refer to the latest applicable Product Data Sheet prior to use.



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