



Product Data Sheet

ASMACO 2880

DESCRIPTION:

ASMACO 2880 is a single-component, low-odor, neutral-cure silicone sealant designed for structural glazing and cladding applications. This high-bonding sealant provides durable adhesion to a wide range of construction materials, both porous and non-porous, including glass, metals, and most plastics. The product is non-corrosive and highly resistant to ozone, UV rays, and temperature extremes, ensuring lasting performance in diverse environmental conditions.



KEY PERFORMANCE PROPERTIES

- **User-Friendly:** Easy-to-use, single-component sealant for straightforward application.
- **Room Temperature Curing:** Cures effectively at room temperature in ambient humidity conditions.
- **Ideal for Cladding:** Specially designed for cladding applications.
- **Non-Corrosive:** Low odor and non-corrosive, making it safe for various materials and environments.
- **High Durability:** Provides long-lasting performance, even in demanding applications.
- **Excellent Resistance:** Exceptional resistance to weathering, moisture, ozone, and other environmental stresses.
- These qualities make ASMACO 2880 a reliable solution for a wide range of construction and sealing needs.

AREAS OF APPLICATION

ASMACO 2880 is highly versatile and suitable for a wide range of applications, including:

Structural Bonding

- Ensures secure attachment in various panel systems, ideal for demanding structural applications.

Panel Reinforcement

- Used to add strength and rigidity in panel stiffener applications.

Comprehensive Material Sealing

- Reliable for weatherproofing and sealing a variety of construction materials, including: Glass, Aluminium, Steel, Painted metals, Stone, Concrete, Brick, Plastics

Joint Caulking

- Suitable for caulking around windows, doors, skirting, walls, and door frames, ensuring a seamless, durable finish.

Structural Glazing

- Ideal for applications requiring both strong adhesion and flexibility in structural glazing.

METHOD OF APPLICATION

Surface Preparation

- Remove all dirt, dust, and old sealant residues thoroughly.
- Clean the surface using a white cloth soaked in solvent to remove grease and contaminants.
- Immediately follow with a clean, dry cloth to eliminate any remaining solvent and debris.

Masking

- Apply masking tape to surrounding areas to achieve precise, clean lines.
- Shield adjacent surfaces to prevent excess sealant, minimizing cleanup efforts.

Sealant Application

- Cut the nozzle at a 45° angle, attach it to the cartridge, and insert it into the caulking gun.
- Apply the sealant along the joint base, ensuring it adheres fully to both sides.
- Ensure deep penetration into the joint for optimal adhesion—avoid surface-only application.

Finishing (Tooling)

- Smooth the applied sealant immediately with a finishing tool for a clean, uniform appearance.
- Use a convex tool to keep the sealant inside the joint, preventing overspreading.
- Avoid using water or soap as lubricants during the tooling process.
- Once the sealant begins to skin, avoid disturbing it for at least 48 hours.

Curing

- Be aware that curing times may be extended in cold temperatures, low humidity, or limited air circulation.

Storage at Application Sites

- Do not store unused sealant on-site for extended periods, especially in extreme temperatures, as this may affect performance.
- Use all sealant promptly after removing from temperature-controlled storage to prevent issues like debonding, loss of cohesion, or cracking.

Important Notes

- Avoid applying the sealant in wet conditions or extreme temperatures (below +5°C) or in areas with standing water.
- For applications involving contact, allow the sealant to cure fully before exposure



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- Test the sealant on a small, inconspicuous area before full application, especially on coated or painted surfaces.
- Following these steps will ensure optimal performance, adhesion, and durability across various applications.

PACKAGING / SUPPLYING

ASMACO 2880 is available in
280 ml Plastic Cartridge (**24 Cartridges / Carton**)
600 ml Sausage (**20 Sausage / Carton**)

HEALTH & SAFETY

Protective clothing such as gloves and goggles should be worn while applying ASMACO 2880. In case the material splashes to the skin or eyes wash the same with fresh water immediately.

In critical cases seek medical assistance.

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.

COVERAGE RATE

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

Bead Size (mm)	Approximate Consumption (ml/m)	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

JOINT CONFIGURATIONS:

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)

STORAGE, SHELF LIFE & HANDLING

ASMACO 2880 is temperature-sensitive and should be stored in a cool, dry, and covered area, protected from direct sunlight, heat sources, and excessive ambient temperatures. Prolonged exposure to elevated temperatures, including storage in shaded but excessively hot areas, may accelerate product ageing, reduce the stated shelf life, and adversely affect application and performance characteristics.

In hot climatic conditions, ASMACO 2880 must be stored at temperatures below 30°C. Avoid prolonged exposure to extreme temperature fluctuations during storage and transportation.

When stored in its original, unopened packaging under the recommended temperature conditions, the product has a shelf life of up to 12 months from the date of manufacture.

Stock should be managed and consumed on a **First-In, First-Out (FIFO)** basis to ensure optimum shelf life and consistent product performance.

CLEAN UP

Clean all the equipment immediately with ANCHOR CLEANER 1

Joint Size in mm	Liters / meter Run	600 ml / Sausage meter run
6 x 6	0.036	16.60
12 x 10	0.120	5.00
20 x 10	0.200	3.00
25 x 12	0.300	2.00

Always conduct a mock-up test before installation to ensure the required bond strength is achieved, as performance may vary with fixture weight and application conditions



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CERTIFICATIONS



TECHNICAL SPECIFICATIONS

PROPERTIES	TYPICAL VALUES	TEST STANDARDS
Color	White / Black	—
Consistency	Thixotropic (Non Sag)	ASTMC 920 -18/ASTM C 639 -15
Curing Mechanism	Neutral	—
Application Temperature	+5°C — +40°C	—
Service Temperature	-50°C — +260°C	—
UV Resistant	300 hours	ASTM C 793
Density, g/m ³	1.32 ±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 - 35	ASTM D 2240
MAF	± 25%	ASTM C 719
Adhesion & Cohesion	No, Cracks, Loss of Adhesion	ASTMC 920 -18/ASTM C 719 -14
VOC	48 g/L	USEPA
Elongation at Break	≥ 400 %	ASTM D 412
E 100 Modulus	≥ 0.35 N/mm ²	ASTM D 412
Tensile Strength	>1.30 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

Disclaimer

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