



Product Data Sheet

ASMACO 2670

Neutral One Component Silicone Based Fungal & Mildew Non-Staining Weather Sealant

Description: ASMACO 2670 is designed for use as a high-performance weather seal sealant for a wide range of construction applications. It is a single-component, neutral-curing, low-modulus silicone sealant with good mechanical resistance and excellent adhesion to most porous and non-porous substrates. It provides excellent weathering, UV and temperature resistance, along with fungal and mildew resistance, helping to maintain a clean and durable sealed joint under normal service conditions. It is non-staining on most common substrates and offers a high degree of joint movement accommodation, making it suitable for applications where movement is anticipated, such as structurally glazed curtain walls and aluminum cladding systems. ASMACO 2670 can also be used as a premium-grade sealant for general construction applications, including expansion joints and external perimeter joints in concrete, blockwork, brickwork, and other compatible building substrates.



KEY PERFORMANCE PROPERTIES

- **Suitable for Most Applications:** Ideal for both new construction and remedial sealing tasks.
- **Versatile:** Combines high-performance structural glazing and weather sealing in one product.
- **Color Options:** Available in various standard colors with custom colors also offered.
- **Excellent Weather Resistance:** Virtually unaffected by sunlight, rain, snow, or extreme temperatures.
- **Superior Adhesion:** Provides excellent unprimed adhesion to a wide range of construction materials, including anodized, alodined, and most coated or powder-coated aluminium surfaces.
- **Easy Application:** Ready-to-use, with no preparation required.
- **User-Friendly:** Offers all-temperature gun-ability, easy tooling, and low- Odor curing, ensuring a smooth application process.
- **Fungal & Mildew Resistant** – helps inhibit fungal and mildew growth on cured sealant surfaces under normal service conditions.

AREAS OF APPLICATION

ASMACO 2670 Sealant is a versatile, general-purpose sealant suitable for a wide range of industries and projects. Below are some typical applications:

Interior and Exterior Applications:

- Suitable for sealing joints in areas where **resistance to fungal and mildew growth** is required.
- Sealing dynamically moving joints, such as gaps between block and concrete, and expansion/control joints in concrete panel joints.
- Tilt-up panel joints and curtain wall joints.
- Perimeter caulking for windows, doors, panels, and frames.
- Joints between prefabricated construction materials.
- Sealing and bonding of ventilation ducts, gutters, and spouts.
- GRC (Glass Reinforced Concrete) and GRP (Glass Reinforced Plastic) lining joints.
- Movement and construction joints in floors.
- Suitable for use on painted metal, EIFS (Exterior Insulation and Finish Systems), granite, and other stone surfaces.

Mirror fixing application – ideal for bonding mirror glass onto a variety of substrates, ensuring strong adhesion **without causing corrosion or damage to the mirror's reflective (mercury/silver) backing**.

STANDARDS

ASMACO 2670 complies with the requirements of:

- ISO 11600 F 25 LM, (previously known as BS 5889) Standard Specification for Elastomeric Joint Sealants.
- ASTM C-920, ASTM C 719 - Type S, Grade NS Class 50 Use NT, G.A & O
- ASTM C - 1184 For structural Silicone sealants.
- ASTM C- 1248 non-staining
- ASTM G21-15. Fungal Resistance

METHOD OF APPLICATION

Surface Preparation:

- Remove any dirt, dust, and old sealant residues thoroughly.
- Clean the surface by wiping it with a solvent-soaked white cloth to remove grease and contaminants.
- Immediately follow up with a clean, dry cloth to ensure all traces of solvent and dirt are removed.



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Masking:

- Apply masking tape to the surrounding areas to achieve precise, clean lines.
- Shield adjacent surfaces to prevent excess sealant and minimize the need for clean-up afterward.

Sealant Application:

- Trim the nozzle at a 45° angle and attach it to the cartridge, then place it into the caulking gun.
- Dispense the sealant into the joint base, ensuring full coverage and adhesion along both sides.
- Avoid merely placing the sealant on the surface—make sure it penetrates deeply into the joint.

Finishing (Tooling):

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

Curing:

- Be aware that curing times may be extended in conditions of lower temperatures, reduced humidity, or limited air circulation.

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.

CLEAN UP

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

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.

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)

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

PACKAGING / SUPPLYING

ASMACO 2670 is available in
280 ml Plastic Cartridge (**24 Cartridges / Carton**)
600 ml Sausage (20 Sausages / Carton)

STORAGE, SHELF LIFE & HANDLING

ASMACO 2670 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 2670 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.

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, ISO 14001, ISO 45001 & ISO 50001

HEALTH & SAFETY

Protective clothing such as gloves and goggles should be worn while applying **ASMACO 2670**. In case the material splashes to the skin or eyes wash the same with fresh water immediately.

In critical cases seek medical assistance.

CAULKING For gap filling, or sealing applications where joint movement is not expected, the recommended bead-size / consumption chart may be followed to determine the appropriate bead dimension and approximate coverage.

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



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TECHNICAL SPECIFICATIONS

PROPERTIES	TYPICAL VALUES	TEST STANDARDS
Color	Clear, White, Black, Grey, Beige, Brown & Others	—
Consistency	Thixotropic (Non Sag)	—
Curing Mechanism	Neutral	—
Curing rate	> 2 mm/day (23°C and 50% R.H)	—
Application Temperature	+5°C — +40°C	—
Service Temperature	-50°C — +260°C	—
Density, g/m ³	>1.30 ±0.02, White, Black, Grey, Beige, Brown & Others	ASTM D 1475
Density, g/m ³	>1.01 ±0.02, Clear	ASTM D 1475
Slump (H)	Nil (No Deformation)	ASTM C 920 -18 / ASTM C 639 - 17
Skin Over Time (SOT)	10 min (RT)	ASTM C 920 -18 / ASTM C 679 - 15
Tack Free Time	30 — 60 min (23°C and 50% R.H)	ASTM C 920 -18 / ASTM C 679 - 15
Hardness Shore A	25 — 32	ASTM D 2240
MAF (Movement Capability)	±50%	ASTM C 719
Elastic Recovery	≥ 90%	ISO 7389
Adhesion & Cohesion	No, Cracks, Loss of Adhesion	ASTM C 920 -18/ASTM C 719 -14
Elongation at Break	≥ 600 %	ASTM D 412
VOC	≤ 41	USEPA - 24
TVOC	≤ 9.0µg/m ³	CDPH
Effect of Heat Ageing	No Cracks OR Chalking	ASTM C 920-18 / ASTM C 1246-17
UV Resistant	250 hours	ASTM C 793
E100 Modulus (23°C)	0.35-0.40 N/mm ²	ISO 8339
Tensile Strength	≥2.0 N/mm ²	ASTM D 412
Fungal and Mildew	“0” No Growth	ASTM G21-15.

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

CERTIFICATIONS



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 ANCHOR ALLIED FACTORY L.L.C. SHARJAH, UAE Technical Department.

Disclaimer

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