



Product Data Sheet

ASMACO 2670

Neutral One Component Silicone Based Non-Staining Weather Sealant

Description:

ASMACO 2670 is designed for use as a weather seal sealant in applications. A single component neutral curing low modulus silicone sealant with good mechanical resistance and adhesion to most porous and non-porous substrates. It has excellent weathering characteristics and will not stain most common substrates. It has a high degree of joint movement accommodation, anticipated such as in structurally glazed curtain wall or aluminium cladding. It can also be used as a premium grade sealant in general applications such as expansion joints and external perimeter joints in concrete, block work & brick works.



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

KEY PERFORMANCE PROPERTIES

- Suitable for most new construction and remedial sealing applications.
- Versatile – high performance structural glazing and weather sealing from a single product.
- Available in different colors; custom colors are also available.
- Excellent weatherability virtually unaffected by sunlight, rain, snow and in extremes temperature.
- Excellent unprimed adhesion to a wide variety of construction materials and building components, including anodized, alodined, most coated and powder coated painted aluminums.
- Ease of application – ready to use as supplied.
- Ease of use – all temperature gun ability, easy tooling, and low-odor cure byproduct

AREAS OF APPLICATION

- Interior and Exterior Applications
- Sealing dynamically moving joints such as gap between Block & concrete, expansion and control joints concrete panel joints.
- Tilt-up panel joints, Curtain wall joints
- Perimeter caulking (windows, doors panels, and frames, etc.)
- Joints between prefabricated construction materials
- Sealing and bonding of ventilation ducts, gutters and spouts etc.
- GRC & GRP lining joints.
- Movement and construction joints in floors
- Painted metal, EIFS, granite and other stone,

METHOD OF APPLICATION

Joint Configuration:

Joint width should be maximum 25 mm.

Width to depth ratio of should be 2:1 Sealants should be selected and installed in line with ASTM C1193 Standard Guide for use of Joint sealants.

Surface Preparations:

Joint faces should be clean, dry and free from dust, oil, grease, old sealant and any traces of contaminant which may affect adhesion. Any previously applied sealant must be mechanically removed.

Thoroughly clean with a suitable cleaning solvent using the two cloth method, using one cloth dampened with the cleaning product to lift contaminants and a second clean dry cloth is used to remove any cleaner residue.

Apply masking tape to prevent contamination of adjacent surfaces.

Joint Backer Rod:

In movement joints, back fill the joint with polyethylene joint backing to control the depth of sealant and prevent three-sided adhesion.

Rev 01, TDS_ASMACO 2670, GCC 0923



Product Data Sheet

Joint depth:

For non-immersed expansion joints, subject to cyclic movement, and greater than 20mm wide, it is important that the depth should not exceed half the width to optimize the elastomeric properties of the silicone sealant. When using filler boards in expansion joints to achieve the correct depth, it is essential to use a backer rod or insert a bond breaking tape into the joint in order to prevent 3-point adhesion.

Applications:

ASMACO 2670 is formulated to be applied using a sealant. Sealant guns are fitted with conical nozzles which can be cut to suit the joint width. Apply masking tape on both side of the joint surface. The sealant should be gunned into the joint using an even trigger pressure, cleaning the nozzle occasionally to avoid contamination. Deep joints should be filled in two or more runs, to prevent air entrapment. When applying the sealant to a vertical joint, start application at the bottom of the joint to continuously support the sealant. Remove the tape while the sealant is still tacky.

Finishing

To displace any air bubbles present in the sealant. It is advisable, immediately after the ASMACO 2670 has been applied, to finish by tooling with a rounded spatula or similar object. The outermost surface of the sealant should be finished with a slightly concave

CLEAN UP

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

STORAGE & SHELF LIFE

ASMACO 2670 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.

PACKAGING / SUPPLYING

ASMACO PU 90 is available in

600 ml Foil Sausage (**20 Foil Sausages /Carton**)

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	600 ml / Sausage meter run	380 ml/ Cartridge meter run
4 x 4	0.016	37.5	23.75
6 x 6	0.036	16.60	10.55
12 x 10	0.120	5.00	3.16
20 x 10	0.200	3.00	1.90
25 x 12	0.300	2.00	1.26

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 2670**. In case the material splashes to the skin or eyes wash the same with fresh water immediately. **In critical cases seek medical assistance.**



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TECHNICAL SPECIFICATIONS

PROPERTIES	TYPICAL VALUES	TEST STANDARDS
<u>BEFORE CURING</u>		
Color	Clear- White – Grey – Beige -Others	—
Base	Silicone	—
Consistency	Thixotropic	—
Curing Mechanism	Moisture Curing	—
Density, g/ml	1.1 — 1.3	ASTM D 1475
Tack free Time	30 — 60 min (23°C and 50% R.H)	ASTM C 920 -18 / ASTM C 679 - 15
Curing rate	Min. 2mm/day (23°C and 50% R.H)	—
Temperature Resistance	-50°C — +150°C	—
Application Temperature	+5°C — +40°C	—
<u>AFTER CURING</u>		
Hardness Shore A	25	ASTM D 2240
Effects of heat ageing	No cracking or chalking.	ASTM C 920-18 / ASTM C 1246-17
Weathering. UV Resistant	250 hours UV	—
MAF (Movement Capability)	±50%	ASTM C 719
Tear Strength	6 N/mm	—
Elastic Recovery	≥90%	ISO 7389
VOC	41	USEPA
Slump (H)	Nil (No Deformation)	ASTMC 920 -18/ASTM C 639 -15
Adhesion & Cohesion	No, Cracks, Loss of Adhesion	ASTMC 920 -18/ASTM C 719 -14
<u>GLASS</u>		
Elongation at Break	Min 200%	ISO 8339
E100 Modulus (23°C)	0.35-0.40 N/mm ²	ISO 8339
E100 Modulus (-20°C)	≤0.60 N/mm ²	ISO 8339
<u>DUMBLE TEST</u>		
Elongation at Break	≥500 %	ASTM D 412
Tensile Strength	1.5 – 2.0 N/mm ²	ASTM D 412

Properties listed are based on laboratory-controlled tests.

All values given are subject to 5-10% tolerance.

Rev 01, TDS_ASMACO 2670, GCC 0923



Product Data Sheet

Shipping Limitations: None

Note

The information and data contained in the product data sheet is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of the product for usage. Since the supplier cannot know all the uses, or the conditions of use to which the product may be exposed, no warranties concerning the fitness or suitability for particular use or purpose are made. It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application. Likewise if the application, product specifications or manner in which our products are used require government approval or clearance, it is the sole responsibility of the user to obtain sure authorization.

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

Rev 01, TDS_ASMACO 2670, GCC 0923