

Product Data Sheet



ASMACO 2677

Product Description:

Asmaco 2677 is a single component, neutral cure silicone sealant which is particularly suitable for indoor and outdoor applications. This is a high bonding, high modulus sealant and offers durable adhesion to most porous and non porous substrates including glass, metals, coated and painted metals, plastic wood, concrete etc. The product is resistant to Ozone, UV and temperature extremes. Asmaco 2677 is developed for use as a secondary sealant in a dual-sealed insulating glass unit. Insulating glass sealant can bond the individual components, forming a weather-resistant unit.

Key Performance Properties:

- Excellent unprimed adhesion to glass and metal substrates, such as galvanized steel, stainless steel,
- Easy to use one component type, minimizes waste and downtime by eliminating base purging and static mixer maintenance,
- Consistently non-slump, permitting automated glazing,
- Non-corrosive by products,
- Almost odorless fast curing formula,
- Resistant to temperature extremes (-60 °C to +180 °C).
- Cures at room temperature at ambient humidity conditions.
- Excellent durability
- Low VOC as per green building norms

Applications:

- Primarily used as a secondary sealant in production of dual-sealed insulating glass unit production,
- Insulating glass silicone sealant can be also recommended with insulating glass units incorporating specialty glass types.

Typical Properties:

Cure system	Neutral
Color	Black
Specific Gravity, (Clear / Black)	1.21
Slump	Nil
Skin forming time, @ RT Minutes	10 minutes
Tack free time, @ RT Minutes Appox	30
Cure Rate, mm/day	2.5
Application temperature range, °C	5 to 40
Durometer Hardness, Shore A, 6mm thick sealant,	45
Service temperature	-60 to 180
MECHANICAL PROPERTIES	
Tensile Strength, N / mm ²	>0.75
Elongation at Break, %	>250

Usage Instructions:

ASMACO 2677 is supplied as a ready to use product. The product can be used with normal caulking guns. Surface must be clean, dry and should be free from oil, grease, dust and frost. After suitable joint preparation and masking, attach the nozzle to cartridge, cut to required dimension and gun the sealant into gap continuously. The non sag paste consistency of the material makes it very friendly to use, easy to tool with spatula. The product cures at room



ASMACO 2677 INSULATING GLASS (IG) SILICONE SEALANT

High Hardness

Fast Curing

Excellent Durability

Product Data Sheet



temperature when it is exposed to moisture and the curing happens from surface to inside the sealant. The skin formation happens within a maximum period of 10 minutes. Any necessary tooling has to be completed within 5 minutes of application. If in case masking tape is used to mark off the area, it has to be removed before skin is formed. Apply Asmaco 2677 Silicone Sealant in a continuous operation using positive pressure. (The sealant can be applied using many types of air-operated guns and most types of bulk dispensing equipment.) Before a skin forms (typically within 5 minutes), tool the sealant with light pressure to spread the sealant against the backing material and joint surfaces. Remove masking tape as soon as the bead is tooled.

Cure Time:

The time required for curing is affected by atmospheric conditions like relative humidity and temperature, degree of confinement and thickness of the sealant.

The product cures at a rate of 2.5 mm per day @ 25°C and a relative humidity of 50%. Less moisture content reduces the rate of cure. Curing time increases with thickness. Application in confined spaces generally lengthens the curing process. It is possible that in total confinement the curing will not be complete and this will result in the softening of the sealant in elevated temperatures. Metal to metal bonds should not overlap more than one inch. Every application involving confinement while curing must be thoroughly tested before commercialization.

Caution:

Direct contact with uncured sealant irritates eyes and may irritate the skin. Over exposure to vapour may irritate nose and throat. Avoid eye and skin contact. Use with adequate ventilation. Do not handle contact lenses with sealant on hand. In case of eye contact, flush eyes with plenty of fresh water for 15 minutes and obtain medical attention. In case of skin contact, remove from skin and flush with water. Keep out of reach of children. Consult Material Safety Data Sheet (MSDS) to know more about handling and safe usage.

Storage and Shelf Life:

Store in cool dry place, not over 25°C away from direct sun light and source of heat. ASMACO 2677 has a shelf life of 12 months from the date of manufacturing if stored in original unopened container. In places where high heat and humidity are present, special precautions must be taken. Store product in a covered, well ventilated warehouse and avoid excessive heat conditions. Storage in high heat, high humidity condition may reduce shelf life by around 30%. Follow First In First Out strictly. Cartons should always be stacked upright with nozzle tip pointing upwards. Don't stack cartons on their sides. Never stack cartons more than 8 high. Don't store within one meter of roofing of the ware house or storage building.

Packaging:

ASMACO 2677 is available in standard 600 ml sausage and standard caulking cartridges.

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.

Non – Warranty: Because the storage, handling and application of the material is beyond Anchor Allied Factory Ltd's control, we can accept no liability for the result obtained. Anchor Allied Factory Ltd's sole limited warranty is the product meets the manufacturing specifications in effect at the time of shipment. There is no warranty or merchantability or fitness for use, nor any expressed or implied warranty. Anchor Allied Factory Ltd will not be liable for any incidental and consequential damage of any kind. The exclusive remedy for breach of such limited warranty is a replacement of any product shown to be other than warranted. Suggestions of uses should not be taken as inducement to infringe any patents.



مصنع انكور الايد ذ.م.م
ANCHOR ALLIED FACTORY L.L.C.

Tel. No.: +971 6 5342091, Fax No.: +971 6 5342107
P.O. Box No.: 21152, Sharjah (U.A.E.), E-mail : info@anchorallied.com.



SILICONE SEALANTS • WATERPROOFING COATINGS • PU SEALANTS • POLYSULPHIDE SEALANTS • ACRYLIC & DUCT SEALANTS
POLYURETHANE FOAM • SPRAY PAINT • SILVER CLOTH DUCT TAPE • CREPE PAPER MASKING TAPE • ALUMINIUM FOIL TAPE
P.E. PROTECTION TAPE • PVC PIPE WRAP TAPE • CONTACT ADHESIVE • EPOXY STEEL • PVC CEMENTS • SUPER GLUE