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TÜVRheinland® CERT ISO 9001

PRODUCT DATA SHEET

ASMACO GOLD
HIGH MODULUS ACETIC CURE SILICONE SEALANT

DESCRIPTION

ASMACO GOLD is a single component Acetic cure silicone sealant which vulcanizes on exposure to moisture in the air at room temperature, to produce a flexible elastomeric sealant. It is suitable for all common construction and glazing application. It is easy to apply and offers excellent adhesion to a variety of nonporous substrates such as glass, glazed ceramic tiles and aluminum. It is resistant to ozone, ultra-violet radiation and temperature extremes.

FEATURES:

- Easy – to – use one component type.
- Cures at room temperature at ambient humidity conditions.
- No surface pre-treatment or primer required.
- Outstanding adhesiveness to many non porous substrates, including Glass, Glazed Ceramics, Aluminum, Masonry, some Plastics etc …
- Mildew resistant
- Excellent durability
- All temperature gunability – can be applied in all temperatures.
- Excellent resistance to weathering, moisture, ozone, UV, temperature Extremes etc…
- Interior and Exterior applications.
- Anti fungus

APPLICATIONS:

- Nonstructural glazing
- Structural attachment of many panel systems
- Demanding sanitary applications
- Panel stiffener applications
- aluminum, steel, painted metal, EIFS, granite and other stone, concrete, brick and plastics

TYPICAL PROPERTIES

Cure system	Acetic
Color	Clear, White, Black
Specific Gravity	0.96
Slump	Nil
Skin over time @ 25°C, Minutes Appox,	3 - 8
Tack free time,minutes @ RT, Approx	20 - 30
Cure rate, mm/day	4
Service temperature range, ^{o}C	-50 to +150
Joint movement capability , %	25 - 40
Durometer Hardness (Shore A)	16
Elastic Recovery, % Approx	>90
MECHANICAL PROPERTIES	
Tensile @100% elongation, N/mm^2, Approx.	0.56
Tensile Strength, N/mm^2, Approx.	1.4
Elongation at Break, % , Approx	300

Usage Instructions:

ASMACO GOLD 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 the sealant is gunned 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 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. Install backing material or joint filler, setting blocks, spacer shims and tapes. Mask areas adjacent to joints to ensure neat sealant lines. Primer is generally not required on non-porous surfaces, but may be necessary for optimal sealing of certain porous surfaces. A test placement is always recommended. Apply Asmaco GOLD 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 3mm per day @ 25°C and a relative humidity of 50%. Less moisture content reduces the rate of cure. Curing time increases with thickness.

The 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.

Vinegar like odour given off during curing is due to the acetic acid liberated as a part of curing reaction and it disappears as the curing progress. Once the curing is complete, further odour will not be detectable.

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. Sealant liberates acetic acid on curing. 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 GOLD** 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 GOLD is available in standard caulking cartridges. Other sizes like sausage and tubes are available upon request.

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.