



Product Data Sheet

ASMACO 4400

High Quality Advanced Modified Polymers Hybrid Sealant and Adhesive

DESCRIPTION:

ASMACO 4400 is a technology that combines the unique features of medium modulus sealing and bonding material based on advanced hybrid polymer technology. A totally neutral "hybrid" sealant for use in areas requiring a tough elastic rubber joint or as an adhesive with superior bonding strength and "NON" bubbling.



STANDARDS

ASMACO 4400 complies with the requirements of:
ASTM C-920 S,
Grade NS Class 25 Use NT, M.A.O

AREAS OF APPLICATION

ASMACO 4400 has been formulated for sealing joints in and around concrete, Concrete Blocks, masonry, pre-cast panels, stone cladding, windows, doors and fiber cement sheeting. ASMACO 4400 very strong adhesion to different substrates.

- Concrete and Masonry
- Cement Plaster Systems
- Aluminium, Copper, Brass and Zinc
- Stainless, Mild or Galvanized Steel
- Glass and Ceramic Tiles
- Glass Reinforced Plastics
- Fiber Reinforced Cement Sheeting
- Timber, Particleboard, Hardboard and Plywood

KEY PERFORMANCE PROPERTIES

- Forms a tough, flexible, elastomeric, weatherproof, and watertight seal

- Excellent resistance to deterioration due to weathering,
- Ozone, U.V. light and high climatic and in-use temperatures
- Durable water and weatherproof sealing even in joints with high levels of deformation (M.A.F. $\pm 50\%$) or repeated cyclic
- movement of compression and extension over a wide temperature range
- Primer-free on dry concrete in non-submerged conditions
- Single component, easy to apply.
- Non-shrink, non-sag, gun grade for vertical use.
- Durable, resilient seal
- Can be over painted after curing when applied on concrete or blockwork substrates.
- Forms a smooth blister free surface when applied onto dry substrates.
- Different colors available.

METHOD OF APPLICATION

Joint Preparation:

To ensure optimum adhesion the joint faces must be sound, clean dry and free from any loosely adherent materials which could prevent adequate bond to the substrate. Sealant shall be applied as per the following general method of application:

Apply masking tape on both side of the joint surface, apply sealant evenly, remove the tape while the sealant is still tacky.

Joint Configuration: width : depth, ratio should be 1:2

Backer Rod: Use a high density polyethylene backer rod as a backup material always to adjust the joint width – depth ratio.

Adherent: Sealants should adhere to only two surfaces of the joint to take care of thermal expansion and contraction of the joint.

Joint depth: For non-immersed joints, subject to cyclic movement, and greater than 10mm wide, it is important that the depth should be double from the width to optimize the elastomeric properties of the joint 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.

PACKAGING / SUPPLYING

ASMACO 4400 in 280 ml (Plastic Cartridge)

Rev 02, TDS_ASMACO 4400, GCC 0824



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Applications:

ASMACO 4400 is formulated to be applied using a sealant. Silicone 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 so as to continuously support the sealant. Remove the tape while the sealant is still tacky.

Finishing

In order to displace any air bubbles present in the sealant. It is advisable, immediately after the ASMACO 4400 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 profile. On no account must moistened fingers be used.

CLEAN UP

Clean equipment immediately with **ANCHOR CLEANER 1** after usage.

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.

* Properties listed are based on laboratory-controlled tests.

TECHNICAL PROPERTIES

PROPERTIES	TYPICAL VALUES	TEST STANDARDS
Color	White – Grey – Beige	—
Consistency	Thixotropic (Non Sag)	—
Curing Mechanism	Moisture Curing	—
Density, g/ml	1.5	—
Tack free Time	30 — 60 min (23°C and 50% R.H)	—
Curing rate	Min. 2.5mm/day (23°C and 50% R.H)	—
Temperature Resistance	-30°C — +80°C	—
Application Temperature	+5°C — +35°C	—
Paint Ability	Yes*	—
Weathering. UV Resistant	250 hours UV	—
Tear Strength	6 N/mm	—
Sagging	0mm	ASTM D 5893
Hardness Shore A	32-35	After 28 days (ASTM C661)
Effects of accelerated	No Cracking & loss of adhesion	ASTM C 793
MAF(Movement Capability)	±50%	ASTM C 719
Elongation at Break	>450%	ISO 8339
E100 Modulus (23°C)	0.80 N/mm ²	ISO 8339
Elongation at Break	≥500 %	ASTM D 412
Tensile Strength	1.5 – 2.0 N/mm ²	ASTM D 412

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
4 x 8	0.032
6 x 12	0.072
12 x 24	0.288
20 x 30	0.600

STORAGE & SHELF LIFE

ASMACO 4400 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.

HEALTH & SAFETY

Protective clothing such as gloves and goggles should be worn while applying **ASMACO 4400**. 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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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.

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

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