



# Product Data Sheet

## ASMACO MIRROR

### Description:

ASMACO MIRROR silicone sealant is a high-performance, neutral-cure adhesive specifically designed for bonding mirrors to various surfaces. It ensures that mirrors are securely fixed without damaging the reflective backing of the mirror.



### KEY PERFORMANCE PROPERTIES

- **Easy to use one-component type:** Ready to use, no mixing required, making it convenient for quick application.
- **Cures at room temperature in ambient humidity conditions:** Achieves full bond strength without the need for special equipment or heat, making it ideal for both DIY and professional use.
- **No surface pre-treatment or primer required on most surfaces:** Adheres well to a wide variety of substrates, saving time and effort during application.
- **Outstanding adhesiveness to many substrates:** Bonds securely to materials such as concrete, metal, plaster, tiles, and wood, ensuring strong and lasting adhesion.
- **Non-corrosive:** Safe for use on delicate materials like mirrors and metals without causing damage or corrosion.
- **Excellent durability:** Provides long-term resistance to weathering, UV radiation, moisture, and temperature fluctuations.
- **Low VOC (Volatile Organic Compounds):** Compliant with green building norms, contributing to a safer indoor environment with minimal harmful emissions.

### AREAS OF APPLICATION

ASMACO MIRROR Silicone Sealant offers a wide range of applications across different substrates. Its versatility, strong adhesion, and neutral cure properties make it ideal for various uses. Here are some common applications:

- **Bonding Mirrors** to surfaces such as **concrete, plaster, tiles, wood, or metal** in residential and commercial environments.
- **Sealing joints** between mirrors and other construction elements like **walls, tiles, and frames** for a seamless, aesthetic finish.
- **Installing mirrors** in **bathrooms, gyms, elevators, salons, or commercial buildings**, ensuring secure attachment even in moisture-prone areas.
- **Adhesive for mirrored furniture** such as mirrored doors, tabletops, or decorative panels.
- **Bonding mirrors to partitions or walls** in retail environments, showrooms, and **fitting rooms** for durability and long-lasting hold.
- **Fixing mirrors in transportation vehicles**, such as **vans, buses, or train interiors** where vibration and movement demand a flexible and durable adhesive.
- **Used in wet areas**, such as **spa rooms, swimming pool areas, and shower enclosures**, where moisture resistance is critical.
- **Fixing decorative glass** or mirrored panels in **interior design projects**, ensuring aesthetics without damage to reflective surfaces.
- **Attaching mirrors to wood paneling or synthetic materials** in residential and office spaces, providing a professional finish without mechanical fasteners.

### STANDARDS

ASMACO MIRROR has been tested and is classified:

- 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 25

Rev 01, TDS\_ASMACO MIRROR, GCC 0924



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## METHOD OF APPLICATION

### Preparation:

- Thoroughly remove all residual dirt and old sealant.
- Wipe the surface with a white cloth soaked in solvent to eliminate grease and dirt.
- Immediately wipe with another clean cloth to remove residual solvent and dirt.

### Masking:

- Use masking to achieve a clean and neat appearance.
- Protect surrounding areas from excess sealant to reduce cleanup.

### Applying:

- Cut the nozzle at a 45° angle and attach it to the cartridge, placing it in the caulking gun.
- Apply the sealant at the base of the joint, ensuring complete filling and wetting on both sides.
- Avoid simply laying a bead on the surface, as the sealant needs to penetrate the joint.

### Tooling:

- Immediately tool the surface of the joint after applying the sealant for a smooth, even finish.
- Use a tool with a convex profile to keep the sealant within the joint.
- Avoid using soap or water as tooling aids.
- After a skin has formed, refrain from disturbing the joint for 48 hours.

### Curing:

- The curing time can take longer at lower temperatures.
- Lower humidity or by low volume of air exchange.
- Two or more runs, to prevent air entrapment.

### 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.

### Important Notes:

- Avoid applying the sealant wet conditions / High Temperature / Low Temperature (+5°C Below) or in areas with standing water.
- For contact applications, allow the sealant to fully cure before any exposure.
- Always test compatibility on a small surface area before full application, especially on coated or painted surfaces.

## PACKAGING / SUPPLYING

ASMACO MIRROR is available in

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	280 ml/Cartridge meter run
4 x 4	0.016	17.50
6 x 6	0.036	7.70

## 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 MIRROR**. In case the material splashes to the skin or eyes wash the same with fresh water immediately.

## CLEAN UP

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

## STORAGE & SHELF LIFE

**ASMACO MIRROR** 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.



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## TECHNICAL SPECIFICATIONS

PROPERTIES	TYPICAL VALUES	TEST STANDARDS
Color	Clear	—
Consistency	Thixotropic (Non Sag)	ASTMC 920 -18/ASTM C 639 -15
Curing Mechanism	Neutral Oxime	—
Application Temperature	+5°C — +40°C	—
UV Resistant	300 hours	ASTM C 793
Density, g/m <sup>3</sup>	1.00 ±0.02	ASTM D 1475
Skin Over Time	10 min (RT)	ASTM C 920 -18 / ASTM C 679 - 15
Curing rate	> 2 mm/day (23°C and 50% R.H)	—
Hardness Shore A	25 - 32	ASTM D 2240
Adhesion & Cohesion	No, Cracks, Loss of Adhesion	ASTMC 920 -18/ASTM C 719 -14
Elongation at Break	≥ 500 %	ASTM D 412
E 100 Modulus	≥ 0.40 N/mm <sup>2</sup>	ASTM D 412
Tensile Strength	1.30 N/mm <sup>2</sup>	ASTM D 412

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

## 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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☎ : +971 6 5342091, 📠 : +971 6 5342107, P.O. Box No.: 21152

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

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📍 Industrial Area-15, Sharjah, U.A.E. 🌐 [www.anchorallied.com](http://www.anchorallied.com) ✉ [info@anchorallied.com](mailto:info@anchorallied.com)