Product Data Sheet

ASMACO 2860

DESCRIPTION:
ASMACO 2860 is a single-component, low-odor neutral-cure silicone sealant specifically designed for structural glazing and cladding applications. This high-bonding sealant provides durable adhesion to a wide range of construction materials, including both porous and non-porous surfaces such as glass, metals, and most plastics. The product is non-corrosive and exhibits excellent resistance to ozone, UV exposure, and temperature extremes, ensuring long-lasting performance in various environmental conditions.



KEY PERFORMANCE PROPERTIES

- **User-Friendly**: Designed as an easy-to-use, single-component sealant.
- **Curing**: Cures at room temperature under ambient humidity conditions.
- **Cladding Application**: Specifically suitable for cladding applications.
- **Non-Corrosive**: Formulated to be non-corrosive with a low odor.
- **Durability**: Offers excellent durability for long-lasting performance.
- **Resistance**: Provides outstanding resistance to weathering, moisture, ozone, and other environmental factors.
- These properties make ASMACO 2860 a reliable choice for various construction and sealing projects.

AREAS OF APPLICATION

ASMACO 2860 is highly versatile and suitable for a wide range of applications, including:

Sealing Movement Joints:
- Effective for sealing movement joints in precast concrete constructions, such as balcony parapets, bridge culverts, and retaining walls.

Caulking Joints:
- Ideal for caulking joints around windows, doors, skirting, walls, and door joints.

Structural Glazing:
- Perfect for structural glazing applications that require robust adhesion and flexibility.

Structural Attachment:
- Suitable for the structural attachment of various panel systems, ensuring secure bonding.

Panel Stiffening:
- Used for panel stiffener applications to enhance structural integrity.

Sealing:
- Provides reliable sealing for common construction materials, including:

Glass, Aluminium, Steel, Painted metals, Stone, Concrete, Brick, Plastics

These applications highlight the sealant's adaptability and effectiveness in diverse construction and maintenance projects.

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	280 ml/ Ctg / mr
4 x 4	0.016	37.5	17.50
6 x 6	0.036	16.60	7.77
12 x 10	0.120	5.00	2.33
20 x 10	0.200	3.00	1.16
25 x 12	0.300	2.00	0.93

METHOD OF APPLICATION

Surface Preparation
- Thoroughly remove any dirt, dust, and old sealant residues.
- Clean the surface using a white cloth soaked in solvent to eliminate grease and contaminants.
- Follow immediately with a clean, dry cloth to remove all traces of solvent and debris.

Masking
- Apply masking tape to surrounding areas for precise, clean lines.
- Shield adjacent surfaces to prevent excess sealant, reducing clean-up effort.

Sealant Application
- Cut the nozzle at a 45° angle, attach it to the cartridge, and place it in the caulking gun.
- Apply the sealant into the joint base, ensuring it fully adheres along both sides.
- Avoid applying the sealant only on the surface—make sure it penetrates deeply into the joint for optimal adhesion.

Product Data Sheet

Finishing (Tooling)

- Immediately smooth the applied sealant with a finishing tool to achieve a clean, uniform appearance.
- Use a convex tool to keep the sealant within the joint without overspreading.
- Avoid using water or soap as lubricants during tooling.
- Once the sealant begins to skin, avoid disturbing it for at least 48 hours.

Curing

- Note that curing times may increase in colder temperatures, low humidity, or limited air circulation.

Storage at Application Sites

- Do not store unused sealant on-site for extended hours or overnight, especially in extreme temperatures, as it may affect performance.
- Use all sealant from temperature-controlled storage promptly to maintain effectiveness and avoid issues like debonding, loss of cohesion, or cracking.

Important Notes

- Avoid applying the sealant in wet, excessively high, or low temperatures (below +5°C) or in areas with standing water.
- For contact applications, allow the sealant to fully cure before exposure.
- Test compatibility on a small, inconspicuous area before full application, especially on coated or painted surfaces.
- This method ensures optimal performance, adhesion, and durability of the sealant across varied applications.

PACKAGING / SUPPLYING

ASMACO 2860 is available in
600 ml Foil Sausage **(20 Sausages / Carton)**

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, ISO 14001, ISO 45001 & ISO 50001

HEALTH & SAFETY

Protective clothing such as gloves and goggles should be worn while applying **ASMACO 2860** In case the material splashes to the skin or eyes wash the same with fresh water immediately.
In critical cases seek medical assistance.

CLEAN UP

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

STORAGE & SHELF LIFE

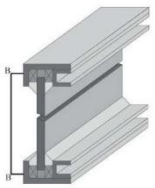
ASMACO 2860 Store in cool place under cover, out of direct sunlight and protect from extreme temperatures. In tropical climate the product must be stored in air – conditioned environment (< 25° C). The shelf life is up to 12 months in unopened conditions if stored as per guidelines.

Note:
Storing the **ASMACO 2860** beyond the specified date on the label doesn't automatically make it unusable. For quality assurance, it is crucial to confirm with ANCHOR ALLIED FACTORY LLC whether the properties required for the intended use remain intact in such instances.

SELECTED ILLUSTRATIVE APPLICATION REFERENCES

1. Insulating glass unit
2. Silicone structural seal (Asmaco 2880 Structural Glazing Sealant)
3. Silicone rubber spacer block
4. Silicone setting block
5. Aluminium profile
6. Backer rod
7. Structural sealant width
8. Structural sealant bite
9. Weatherseal dimension
10. Silicone weatherseal (Natural Stone and Facade Sealant)
11. Silicone insulating glass seal (Insulating Glass Sealant)

Figure 2A: Transom detail. Examples of structural glazing designs: 2-sided design (installed site).



Typical Examples of Joint Design
Figure 2: System for 2-sided structural glazing.

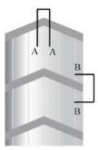


Figure 2B: A mullion detail.

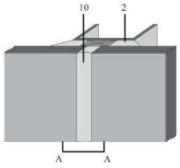


Figure 3B: A mullion detail.



Figure 3A: Transom detail. Examples of structural glazing designs: 4-sided design (facto glazed).

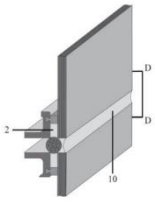
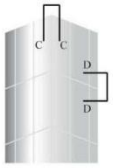


Figure 3: System for 4-sided structural glazing.



Product Data Sheet

TECHNICAL SPECIFICATIONS

PROPERTIES	TYPICAL VALUES	TEST STANDARDS
Color	White / Black	—
Curing Mechanism	Neutral	—
Application Temperature	+5°C — + 40°C	—
Curing rate	> 2 mm/day (23°C and 50% R.H)	—
MAF	25 %	—
Consistency	Thixotropic (Non Sag)	ASTMC 920 -18/ASTM C 639 -15
UV Resistant	300 hours	ASTM C 793
Density, g/m³	1.57 ±0.02	ASTM D 1475
Skin Over Time	10 min (RT)	ASTM C 920 -18 / ASTM C 679 - 15
Hardness Shore A	45 - 55	ASTM D 2240
Adhesion & Cohesion	No, Cracks, Loss of Adhesion	ASTMC 920 -18/ASTM C 719 -14
VOC	48 g/L	USEPA
Elongation at Break	≥ 250 %	ASTM D 412
E 100 Modulus	≥ 0.8 N/mm²	ASTM D 412
Tensile Strength	>2.0 N/mm²	ASTM D 412

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

CERTIFICATIONS

Regional Compliance Notice

Please note that regulatory requirements may vary from one region to another. As a result, product information and recommended applications may differ between countries. For accurate and up-to-date details on product specifications and approved uses, and for any technical guidance, please contact Technical Department of ANCHOR ALLIED FACTORY L.L.C. SHARJAH, UAE.

Disclaimer

The technical information, data, and recommendations provided by ANCHOR ALLIED FACTORY L.L.C. SHARJAH, UAE are supplied in good faith based on current knowledge and experience and are intended for general guidance only. Product performance may vary due to factors beyond ANCHOR ALLIED FACTORY L.L.C. SHARJAH, UAE's control, including materials, substrates, environmental conditions, and methods of application.

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Users are responsible for verifying the product's suitability for the intended application and for conducting appropriate testing under actual project conditions. Product specifications may be amended without prior notice. All sales are subject to ANCHOR ALLIED FACTORY L.L.C. SHARJAH, UAE current Terms and Conditions of Sale and Delivery. Users must refer to the latest applicable Product Data Sheet prior to use.

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