



Product Data Sheet

ASMACRYL 52

Acrylic siliconized duct sealant suited for effectively sealing low movement joints.

Description: ASMACRYL-52 is a single-component gun-grade sealant formulated with acrylic emulsions and special ingredients to enable easy application and efficient sealing of joints between construction components under moderate stress levels. It is designed for immediate use and adept at sealing both internal and external joints in porous substrates like concrete, asbestos, cement, brickwork, and wood. Additionally, it exhibits compatibility with galvanized sheet steel (both PVC coated and bare), stainless steel, or aluminum sheets. ASMACRYL-52 is particularly well-suited for effectively sealing low movement joints.



AREAS OF APPLICATION

- **Sealing of duct holes:** ASMACRYL-52 can effectively seal holes in HVAC ducting, preventing air leakage and ensuring optimal system performance and energy efficiency.
- **Insulation foam joints:** The sealant is suitable for sealing joints in insulation foam used in HVAC systems, helping to maintain thermal efficiency and preventing heat loss or gain.
- **Aluminum ducts:** ASMACRYL-52 is compatible with aluminum ducts commonly used in HVAC systems. It provides a reliable seal to ensure proper functioning and performance of the ductwork.
- **MS (Mild Steel) ducts:** Mild steel ducts are frequently used in HVAC installations, and ASMACRYL-52 offers excellent adhesion and sealing properties on such surfaces, enhancing the durability and integrity of the ducting system.
- **Galvanized metal ducts:** ASMACRYL-52 can be applied to galvanized metal ducts to seal joints and connections, preventing air leakage and maintaining air quality and system efficiency.
- **In summary,** ASMACRYL-52 is well-suited for sealing duct holes, insulation foam joints, and various types of ducting materials, including aluminum, mild steel, and galvanized metal ducts, making it a versatile choice for HVAC applications.

KEY PERFORMANCE PROPERTIES

Easy-to-use one-component type: ASMACRYL-52 is designed for convenient application, requiring minimal effort during the sealing process.

Cures at room temperature at ambient humidity conditions: The sealant cures effectively under standard room temperature and humidity levels, allowing for efficient sealing without the need for additional environmental controls.

No surface pre-treatment or primer required in most surfaces: ASMACRYL-52 simplifies the sealing process by eliminating the need for surface pre-treatment or primer application in many surface types, thus saving time and resources during application.

Water-based low VOC sealant: ASMACRYL-52 is formulated as a water-based sealant with low volatile organic compound (VOC) emissions, contributing to environmental sustainability and ensuring minimal impact on indoor air quality.

METHOD OF APPLICATION

Surface Preparation

Ensure that surfaces to be sealed are clean, dry, sound and grease-free. Clean non-porous surfaces with ASMACO CLEANER or methylated spirits, and dry thoroughly with a clean oil and lint-free cloth before application of sealant.

Note: When using any solvent, always provide adequate ventilation.

Masking

Areas adjacent to the joints should be masked with tape to prevent contamination of the substrates and to ensure a neat sealant line. Masking tape should be removed immediately after tooling.

Priming

No primer is required.

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Back-up Materials

When back-up material is required, a closed cell polyethylene backer rod is recommended. Low tack polyethylene tape should be used in joints too shallow to allow the use of a backer rod. Back-up materials provide back pressure and prevent three-sided adhesion that limits sealant movement capability.

Finishing

The joint should be tooled within 5 minutes of application to ensure good contact between the sealant and the substrate. Tooling of the sealant also gives a smooth, professional finish.

Clean-up

Excess sealant may be cleaned off tools and non-porous surfaces whilst in an uncured state using with ASMACO CLEANER. If sealant is misapplied to porous substrates, it should be left until it is just cured and then removed by peeling, cutting or other mechanical means. Care should be taken not to damage plastic or coated surfaces.

Joint Design

The sealant joint width should be designed to accommodate the movement capability of the sealant. When designing joints using with **ASMACRYL 52** Silicone, the minimum width should be 6 mm. For joints between 6–12 mm wide, a seal depth of 6 mm is required. For joints above 12 mm wide, a width to depth ratio of 2:1 should be used. In situations where fillet joints are needed, a minimum of 6 mm sealant bite to each substrate is recommended.

PACKAGING / SUPPLYING

ASMACRYL 52 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	Liter/meter Run
4 x 4	0.016
6 x 6	0.036
12 x 10	0.120
20 x 10	0.200
25 x 12	0.300

CLEAN UP

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

STORAGE & SHELF LIFE

ASMACRYL 52 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.

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 **ASMACRYL 52**. 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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TECHNICAL SPECIFICATIONS

PROPERTIES	TYPICAL VALUES	TEST STANDARDS
Color	White, Black, Grey, Beige,	—
Consistency	Thixotropic (Non Sag)	ASTMC 920 -18/ASTM C 639 -15
Curing Mechanism	Acrylic	—
Application Temperature	+5°C — +40°C	—
Skin Over Time	10 min	—
Solid Content	>80%	—
Density, g/m ³	1.66 ±0.02	ASTM D 1475
Curing rate	> 2 mm/day (23°C and 50% R.H)	—
Hardness Shore A	>30	ASTM D 2240
Adhesion & Cohesion	No, Cracks, Loss of Adhesion	ASTMC 920 -18/ASTM C 719 -14
VOC	68	USEPA
Elongation at Break	≥ 200 %	ASTM D 412
E 100 Modulus	≥0.50 N/mm ²	ASTM D 412
Tear Strength	> 4.00 N/mm ²	ASTM D 412
Tensile Strength	>1.50 N/mm ²	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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MFG. OF SILICONE , ACRYLIC & POLYURETHANE SEALANTS, WATER PROOFING COATINGS, SELF - ADHESIVE TAPES, SPRAY PAINTS, CONTACT ADHESIVE, PVC CEMENTS, EPOXY STEEL

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