



Product Data Sheet

ASMACRYL 52

Acrylic Siliconized Duct Sealant with Antifungal and Mildew Resistance for Low-Movement Joints

Description: ASMACRYL 52 is a single-component, gun-grade acrylic sealant formulated with high-quality acrylic emulsions and special ingredients to provide easy application and effective sealing of joints between construction components subjected to moderate stress levels.

It is ready to use and suitable for sealing both internal and external low-movement joints in porous substrates such as concrete, asbestos cement, brickwork, wood and ducts. It also exhibits good compatibility with galvanized sheet steel, including PVC-coated and bare surfaces, as well as stainless steel and aluminum sheets.

ASMACRYL 52 is particularly suitable for low-movement joints and provides **good resistance to fungal growth and mildew**, making it suitable for applications where protection against fungal and mildew formation is required.



KEY PERFORMANCE PROPERTIES

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

- **Paintable sealant:** Once cured, the sealant can be easily painted over, allowing seamless integration with surrounding surfaces and finishes.
- **Easy-to-use, one-component system:** **Asmacryl 52** is designed for convenient application, requiring minimal effort during the sealing process.
- **Cures at room temperature and ambient humidity:** The sealant cures effectively under standard environmental conditions, without the need for additional curing controls.
- **No surface pre-treatment or primer required on most surfaces:** This simplifies application, saving both time and resources.
- **Water-based, low VOC formulation:** **Asmacryl 52** is environmentally friendly, with low volatile organic compound (VOC) emissions, ensuring minimal impact on indoor air quality.
- **Antifungal and Mildew Resistant** – Provides resistance against fungal growth and mildew, helping maintain a clean and durable sealed joint.

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.
- Suitable for general construction, building maintenance, and finishing applications requiring **antifungal and mildew-resistant sealing**.

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, PIR, PUR Ducts making it a versatile choice for HVAC applications.

METHOD OF APPLICATION

Surface Preparation

Ensure that surfaces to be sealed are clean, dry, sound and grease-free. Clean non-porous surfaces with ANCHOR CLEANER 1 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 WARM WATER. 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/ Gap/Caulking Design

The sealant joint width should be designed to accommodate the expected low movement capability of the sealant and the joint. When designing joints using **ASMACRYL 52**, the recommended joint dimensions should be selected in accordance with the table below. Where fillet joints are required, a **minimum sealant contact / bite of 6 mm on each substrate** is recommended to ensure adequate adhesion and sealing performance.

PACKAGING / SUPPLYING

Asmacryl 52 is available in
280 ml, Plastic Cartridge (**24 Cartridges / Carton**)

CLEAN UP

Clean all the equipment immediately with warm water.

COVERAGE RATE

Note: Coverage values are theoretical and calculated for a round bead with 100% material utilization. Actual coverage may vary depending on bead size & joint dimensions, application technique, surface conditions, and wastage during application.

JOINT / GAP CONFIGURATIONS:

Installed in line with ASTM C1193 Standard Guide for use of Joint sealants. 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 / Sausage meter run
12 x 12	0.144	1.94
20 x 15	0.300	0.93

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 **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.

STORAGE, SHELF LIFE & HANDLING

ASMACRYL 52 is temperature-sensitive and should be stored in a cool, dry, and covered area, protected from direct sunlight, heat sources, and excessive ambient temperatures. Prolonged exposure to elevated temperatures, including storage in shaded but excessively hot areas, may accelerate product ageing, reduce the stated shelf life, and adversely affect application and performance characteristics.

In hot climatic conditions, ASMACRYL 52 must be stored at temperatures below 30°C. Avoid prolonged exposure to extreme temperature fluctuations during storage and transportation.

When stored in its original, unopened packaging under the recommended temperature conditions, the product has a shelf life of up to 12 months from the date of manufacture.

Stock should be managed and consumed on a **First-In, First-Out (FIFO)** basis to ensure optimum shelf life and consistent product performance.

CAULKING For gap filling, or sealing applications where joint movement is not expected, the recommended bead- size / consumption chart may be followed to determine the appropriate bead dimension and approximate coverage.

Bead Size (mm)	Approximate Consumption (ml/m)	Coverage per 280 ml Cartridge (Running Meter)
3 mm	7.1	39.6 m
4 mm	12.6	22.3 m
5 mm	19.6	14.3 m
6 mm	28.3	9.9 m
7 mm	38.5	7.3 m
8 mm	50.3	5.6 m
9 mm	63.6	4.4 m
10 mm	78.5	3.6 m
11 mm	95.0	2.9 m
12 mm	113.1	2.5 m



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CERTIFICATIONS



TECHNICAL SPECIFICATIONS

PROPERTIES	TYPICAL	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.

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 ANCHOR ALLIED FACTORY L.L.C. SHARJAH, UAE.

Disclaimer

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