



# Product Data Sheet

## ASMACRYL 55

### High Quality Fire Resistant Acrylic Sealant

**Description:** ASMACRYL-55 is a single-component gun-grade sealant, formulated with fire-resistant acrylic emulsions. Designed to be partially flexible, it serves the specific purpose of fire sealing applications. This sealant is meticulously crafted with special additives and chemicals, ensuring fire resistance, ease of application, and effective joint sealing between construction parts under moderate stress. ASMACRYL-55 expands efficiently, providing a reliable seal against fire, smoke, and gas. Its properties above +120°C make it an ideal choice for achieving up to 4 hours of fire-resistant sealing in filled joints.



#### KEY PERFORMANCE PROPERTIES

- Excellent weatherability, ensuring durability under various environmental conditions.
- Excellent tooling characteristics for professional use, facilitating precise application.
- Non-corrosive to metals, ensuring compatibility with metal substrates.
- Suitable for alkaline substrates such as concrete, mortar, and fibrous cement, providing versatility in application.
- Matt finish, contributing to a visually appealing aesthetic.
- Excellent adhesion on most substrates without primer, enhancing convenience and efficiency in use.
- Solvent-free, resulting in low volume shrinkage during vulcanization, ensuring a durable and reliable seal.
- Almost odorless, minimizing discomfort during application.
- Non-sag, maintaining its shape and integrity when applied vertically or overhead, ensuring consistent performance.

#### AREAS OF APPLICATION

ASMACRYL 55 is versatile and designed for fire-rated movement and connection joints on both porous and non-porous substrates. It is suitable for various applications including:

- Sealing around doors and window frames.
- Sealing around ventilation grills.
- Joints between ceilings and wall joints in block work where low movement is expected.
- Sealing of duct holes and similar openings.
- Fire retardant applications.
- Suitable for areas where there is a potential risk of fire, as it is self-extinguishing.

#### METHOD OF APPLICATION

To ensure optimum adhesion the joint faces must be sound, clean dry and free from any loosely adherent material which could prevent adequate bond to the substrate.

#### Applications:

ASMACO 55 is formulated to be applied using a silicone gun but may be applied by trowel if required. Sealant guns are fitted with conical nozzles which can be cut to suit the joint width. 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.

#### Finishing

The outermost surface of the sealant should be finished with a slightly concave profile. Tool to a smooth finish immediately with a wet profiling tool or spatula.

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## 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.

## STORAGE & SHELF LIFE

**ASMACRYL 55** 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 55**. In case the material splashes to the skin or eyes wash the same with fresh water immediately. **In critical cases seek medical assistance.**

## STANDARDS

**EN 1366 – 4 : 2021 ,**  
**EN 1363-1:2020**  
**Fire Resistance Test For Services Installation**

## PACKAGING / SUPPLYING

**ASMACRYL 55** 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:

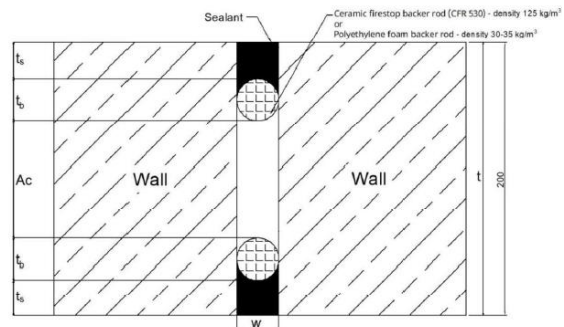
$$\frac{W \times D}{1000}$$

= 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

## DESCRIPTION OF THE TEST SPECIMEN



## FIRE RESISTANCE CHARACTERISTICS

### ASMACRYL 55 FIRE STOP ACRYLIC SEALANAT

Wall Thickness (Min)	Joint Width (W)	Joint Seal Depth (T)	Sealant Depth (Ts)	Back Filling Material (Tb)	Air Cavities (Ac)	Fire Resistance Rating	Comments
200 mm	6 mm	200 mm	5 mm	20 mm ceramic fire stop backer rod (CFR 530) OR 20 mm polyethylene backer rod	170 mm	Integrity: 240 minutes Insulation: 240 minutes	No Failure
200 mm	15 mm	200 mm	10 mm	10 mm ceramic fire stop backer rod (CFR 530) OR 10 mm polyethylene backer rod	140 mm	Integrity: 240 minutes Insulation: 240 minutes	No Failure
200 mm	20 mm	200 mm	15 mm	30 mm ceramic fire stop backer rod (CFR 530) OR 30 mm polyethylene backer rod	110 mm	Integrity: 240 minutes Insulation: 240 minutes	No Failure
200 mm	25 mm	200 mm	20 mm	30 mm ceramic fire stop backer rod (CFR 530) OR 30 mm polyethylene backer rod	100 mm	Integrity: 240 minutes Insulation: 240 minutes	No Failure

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## CERTIFICATIONS



مختبر الامنات للسلامة  
EMIRATES SAFETY LABORATORY



مركز الاعتماد الخليجي  
GCC Accreditation Center



## TECHNICAL SPECIFICATIONS

PROPERTIES	TYPICAL VALUES	TEST STANDARDS
Color	White	—
Consistency	Smooth Paste	—
Base	Acrylic Dispersion	—
Service Temperature	- 20°C — +80°C	—
Application Temperature	+5°C — +45°C	—
Skin Over Time	30 — 60 min (23°C and 50% R.H)	—
Tack Free Time	>40 min @ 25°C	—
Paint Ability	Yes	—
UV Resistance	No Deterioration	ASTM G 53
Fire Rating	240 min	EN 1366-4:2021
Flow Rate	<2mm	ISO 7390
Density, g/m <sup>3</sup>	1.67 ±0.02	ASTM D 1475
Skin Over Time	60 min (+23° C 50% (R.H)	ASTM C 920 -18 / ASTM C 679 - 15
Crack & Chalking	No Deterioration @ 70°C	TT-S-0027E
Hardness Shore A	~ 40	ASTM D 2240
Elongation at Break	≥ 200 %	ASTM D 412
E 100 Modulus	~ 0.50 N/mm <sup>2</sup>	ASTM D 412
Tensile Strength	≥1.50 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)