

Shieldflex AC125

General Purpose Acrylic Sealant



MICSHIELD®

Description

Shieldflex AC125 is a single-component, non-sag, water-based sealant made from acrylic polymers, cures with atmospheric moisture to form a durable and UV-resistant seal.

Uses

- Suitable for general sealing purposes in constructions, gap filling, and other applications.
- Sealing and joining of mortar, concrete, plaster, bricks, gypsum boards, wood, aluminum, steel, and PVC.
- For windows and door frames (Aluminum, PVC, or wood) with walls.
- Can be used for vertical and horizontal applications.
- Can be used to fill wall cracks.
- Indoor and outdoor applications.

Characteristics / Advantages

- Easy to apply.
- Paintable.
- High extrusion rate.
- Non-sagging properties.
- Excellent UV resistance.
- Excellent adhesion to various substrates.
- Non-corrosive to metals.
- Low odor.
- Excellent tooling characteristics.

Packaging

Shieldflex AC125 is supplied in 260 ml cartridges.

Shelf Life and Storage

Shieldflex AC125 has a shelf life of 18 months when stored in its original unopened packaging in cool and dry conditions, protected from direct sunlight, heat, and moisture. Shelf life may be reduced if the recommended storage conditions are not followed.

Typical Properties

Color	White
Density	~1.7 g/ml
Tack-free Time	15 – 20 minutes
Curing Time	4-5 days /5 mm thickness
Elongation at Break (DIN 53504)	340%
Modulus (100%) (DIN 53504)	0.4 MPa
Shore A Hardness	35 ± 3
Movement Accommodation Factor	12.5%
Temperature Resistance	- 20 to 70 °C
Application Temperature	5 to 40 °C
Frost resistance during transportation	-15 °C

Application Instructions

1. Surface Preparation

The substrate must be clean, dry, and free from dust, loose materials, surface contamination, and materials that may reduce bond or prevent adhesion. Use a wire brush and blow with compressed air. For porous substrates, dilute **Shieldflex AC125** with water by (1:2) before application. Apply masking tape to areas adjacent to joints prior to application.

2. Application

Cut the nozzle to the desired bead size and insert the cartridge into a standard caulking gun. For a smooth seal, hold at a 45° angle and apply by pushing **Shieldflex AC125** ahead of the nozzle. For vertical joints, start application from the bottom up to ensure the gaps are filled. Ensure that it makes complete contact with the entire surface. Immediately tool the uncured surface of the sealant using a spatula (within 5 minutes). Remove the masking tape immediately after sealing. In conditions of high temperature and low humidity, the sealant may form a surface skin almost immediately, leaving little time for proper smoothing or tooling. If a skin has already developed, it can be easily smoothed using a cloth or brush moistened with soapy water.



3. Cleaning

Excess material should be cleaned off tools and surfaces while it is uncured using hot water. Cured sealant can only be removed mechanically.

Technical Support

Refer to technical information, method statement, or contact technical support team for any inquiry.

Safety Instructions

Use in a well-ventilated area. Keep it away from children. Direct contact with uncured sealant may irritate eyes and skin. Overexposure to vapor may irritate the eyes, nose, and throat. Do not handle contact lenses with sealant on your hands. In case of eye contact, flush eyes with water for 15 minutes. Obtain medical attention. In case of skin contact, remove from skin and flush with water.

Limitations

- Do not apply the product below 5 °C.
- Not suitable for application in permanently immersed areas (water tanks).
- A sample should be done to check the compatibility between the sealant and the paint. It is recommended to use elastic paints to avoid cracking.

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