

1100E

Multipurpose Silicone

1 - Description

Akfix 1100E, is a one-component acetoxycure silicone sealant for a range of general sealing and glazing applications. It provides a strong adhesion and suitable for use on common non-porous building materials.

2 - Properties & Features

- Stays permanently elastic after curing,
- Remains flexible in low and high temperatures,
- Resistant to temperature extremes,
- Resistance to aging, cracking and discoloring.

3 - Fields of Application

- Sealing around windows and doors.
- Sealing in DIY applications.
- On bathroom, kitchen and plumbing applications.
- Connection and expansion joints on glass, porcelain, steel etc.
- Sealing electric, telephone etc. sockets and switches.

4 - Product Information

Packacking	Gw. 260 g, Gw. 280 g, Gw. 305 g, Gw. 325 g
Shelf Life	18 months
Storage Conditions	Store in cool and dry conditions between +5°C and +25°C
Color	Transparent, White, Black, Aluminum, Grey, Brown, Golden Oak

5 - Technical Data

Uncured Sealant	Method / Conditions	Value
Basis		Silicone Polymer
Curing Mechanism	Acetoxycure	
Sagging	ISO 7390	0 mm
Density	ISO 1183-1	0,96 ± 0,02 g/ml
Skin Formation Time	Internal (23°C and 50% R.H)	8 - 20 min
Drying Rate	Internal (23°C and 50% R.H)	Min. 2,5 mm/day
Cured Sealant		
Shore A hardness	ISO 868	15 – 25
Efficiency	310 ml	8 meters
Tensile strength	ISO 37	≥ 0,7 N/mm ²
Elongation at break	(4 mm thickness) (45 days 23°C and 50% R.H)	≥%350
Application temperature	Ambient and surface	Between +5°C and +40°C

6 - Standards

Meets or exceeds the requirements of the following specifications:

- CE marked for EN 15651 for façade and glazing applications (DOP No: 90-15-0169).
- The requirements of VOC content specifications in LEED credit EQc4.1 “Low-emitting products” of SCAQMD rule 1168

7 - Directions for Use

Surface preparation and sealant application;

A. **Cleaning and joint preparation:** Substrates must be sound quality, clean, dry and free of dust, grease, rust and other contaminants which may affect the adhesion. Non-porous surfaces (such as aluminum, glass, etc.) must be free of any coatings and should be cleaned with a suitable solvent and thoroughly dried with a clean cloth. Porous substrates (such as concrete, brickwork, etc.) must be mechanically cleaned from loose particles or residues with a jet of compressed air, sandpaper or hard brush. Mask off joint edges with self-adhesive tape as protection from contamination.

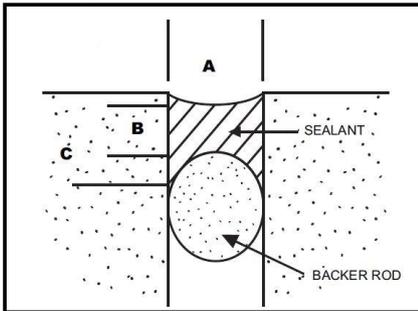
B. **Backing material:** Use a polyethylene bond breaker tape or backer rod to adjust the joint depth to proper width/depth ratio and to avoid three side adhesion which restrict the movement capability of the sealant. Backer rod must be at least wider 25% than the joint width.

C. **Sealant application:** Recommended application and surface temperatures: +5°C and +40°C. Cut nozzle to obtain desired bead size. Apply the sealant as evenly as possible by using professional caulking gun.

D. **Tooling and finishing:** Tool the joint surface with a smoothing tool ensuring the sealant a full contact to the sides and backup material into the joint before skin formation. Remove the masking tapes immediately after smoothing over the surface of the sealant.

E. **Cleaning:** Uncured product may be easily removed with damp sponge. Cured product must be removed mechanically. Hands can be cleaned with warm water and soap.

8 - Joint Design



- A: Joint width
B: Joint depth
C: Adhesion surface length

The following general rules/recommendations should be followed:

The ideal joint has a 2:1 width(A):depth(B) ratio

Minimum width for joints 6 mm

Maximum width for joints 12 mm

Minimum depth for joints 6 mm

9 - Remarks & Restrictions

- It must not be used in totally confined spaces where sealant cannot cure due to lack of atmospheric moisture.
- Not recommended to use on porous surfaces like marble, natural stone, concrete etc.
- Because of acidic curing, it must not be used on mirrors and sensitive metals like copper, brazen, lead.
- Not over paintable.
- Do not use in conjunction with bitumen asphalt, neoprene and certain organic elastomers.
- It is not suitable for food contact applications.
- Do not contact with water.
- Avoid from direct UV.
- Can yellow if exposed to bleach or HCl based brick cleaners whilst curing.

10 - Safety

Ensure good ventilation of the work station. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Store in a well-ventilated place. Keep cool. Check MSDS guidelines for disposal and further information concerning safety.

11 - Disclaimer

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