

PRODUCT DATA SHEET

PRODUCT: 100E UNIVERSAL SILICONE SEALANT

Description

AKFIX 100E, 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.

Features & Benefits

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

Application Areas

- 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.

Instructions

- Ensure that surfaces to be sealed are clean, dry and grease free.
- The application temperature must be between +5°C and +40°C.
- In order to reduce the deformations of the joints, their depth must be much less than their width, minimum dimensions are 5x5 mm, for wider joints the depth should be preferably half of the width and it is adjusted by the use of a backup material.

- After the application, the sealant must be tooled with light pressure within 5 minutes to spread the material against the joint surfaces and to obtain a professional finish.
- Excess uncured sealant may be cleaned with solvent. Cured sealant can be removed barely mechanically.
- 6 mm. joint depth is recommended for joint widths between 6 mm to 12 mm.
- Joint width and depth ratio should be about 2:1.

Consumption (approx.)

Joint Width	6mm	9mm	12 mm
Joint Depth	6mm	6mm	6 mm
Efficiency / 310 ml	8 meters	6 meters	4 meters

Surface Preparation

Following cleaning procedure and materials are recommended:

Glass	Degrease with alcohol or MEK
Aluminium, light alloys and stainless steel	Degrease with alcohol or MEK
Other Metals	Lightly abrade then degrease as above
Wood	Lightly abrade surface then remove dust
Plastics	Degrease using an agent recommended by plastics manufacturer

Note: The information and specifications provided is to the best of our knowledge. The technical data contained herein are true and accurate at the date of issue and are subject to change without prior notice. No guarantee of accuracy is given or implied. We guarantee our products to conform to ASHAK Construction Chemicals quality control. We cannot be held responsible or liable, directly or indirectly for the use of our products, coverage, performance or injury resulting from use, as we have no control over the method of application used or site conditions. For further technical and method statements, contact our Technical representatives.

Standards

Meets or exceeds the requirements of the following specifications:

- The requirements of VOC content specifications in LEED credit EQc4.1 “Low-emitting products” of SCAQMD rule 1168.
- CE marked for EN 15651 for façade, glazing and sanitary applications.

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.

Shelf life & storage instructions

The shelf life is 18 months if stored in unopened-original package in a dry place at Temperatures between +5 °C and +25 °C. Failure to comply with these recommendations will result in a reduction in shelf life

Properties

Basis	Silicone Polymer	
Curing System	Acetoxy	
Density	0.96 – 0.98 g/ml	(ASTM D 792)
Shore A Hardness	15-25 (after 28 days)	
Skin formation	8-20 min. (23 °C and 50% R.H)	
Curing Rate	Min. 2.5 mm/day (23 °C and 50% R.H)	
Tensile Strength	≥ 0,7 N/mm ²	(ASTM D 412)
Elongation At Break	≥ 350%	(ASTM D 412)
Sagging	0 mm	(ISO 7390)
Application Temperature	+5 °C to +40 °C	

Safety & Disposal

Inhalation of the sealant vapor for a long period must be avoided. The application area must be ventilated properly. The uncured sealant must not be contacted for a long period. Cured silicone rubber bears no risk to health. Temperatures between +5 °C and +25 °C. Check MSDS guidelines for disposal and further information concerning safety.

Product

Product Type	Volume	Package
Transparent, White, Black, Aluminium, Grey, Brown, Golden Oak	280ml	24
White, Transparent (Sausage)	80ml	36
White, Transparent (Tube Blister)	50gr	24/192

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Suitable for Every Purpose Daily Needs



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