



AT-623 UNIVERSAL GRADE ACETIC SILICONE SEALANT



TECHNICAL DATA SHEET

Ver.01 | 29 Aug 2025

AT-623 Universal Grade Acetic Silicone Sealant is one-part sealant that offer excellent adhesion, weatherability and elasticity for general glazing and for sealing application.

FEATURES

- ◆ Acetic acid curing system
- ◆ Outstanding durability
- ◆ One part no mixing
- ◆ Permanently flexible
- ◆ Excellent gunnability (-20°C to +50°C)
- ◆ Weather proof
- ◆ Low shrinkage
- ◆ No sagging
- ◆ Primerless adhesion to most materials
- ◆ UV resistance

USES

- ◆ General glazing: glass, plastic, channel or stop.
- ◆ Curtainwall sealing: glass, steel, granite and plastic.
- ◆ General sealing: sheet metal, skylights, ventilators, air-conditioning.

Due to a large variety of different coatings and substrates, we recommend preliminary compatibility tests prior to application to achieve desirable results.

NOT RECOMMENDED FOR

AT-623 is an acetic acid curing silicone and is not suitable where the acetic acid component will corrode the base material.

Not for: traffic areas or areas subject to abrasion.

Not for: structural glazing.

Not for: on marble, quartzite or natural stones.



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JOINT DESIGN

The specified sealant bead size should be calculated to comply with the compression and extension capabilities of the sealant in relation to the anticipated joint width due to expansion and contraction. Generally, calculation of the width of this sealant bead should be computed on the basis of a maximum $\pm 20\%$ compression and extension capability. Minimum bead size should not be less than 3 mm to accommodate movement. Design joint depth of which ratio width becomes 0.5 to 1.

Suitable joint depth vs width:

6mm x 6mm

8mm x 12mm

10mm x 20mm

- * Joint size minimum 3mm x 3mm.
- * Joint size maximum 30mm.

APPLICATION

- ◆ Surface must be clean and dry.
- ◆ Mask smooth surface to simplify cleanup.
- ◆ Use approved back-up material in joint.
- ◆ Cut nozzle to desired size.
- ◆ Insert cartridge into caulking gun.
- ◆ Push sealant ahead for uniform bead.
- ◆ Tool within 5 minutes.
- ◆ Clean off excess sealant with M.E.K. or toluene.

CURING TIME

AT-623 will tack free in approximately 15 minutes and will cure to a depth of 10 mm in 7 days. Longer curing time may be necessary in dry and low humidity area.



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SPECIFICATION

Curing system	Acetoxy
Appearance	Non-sagging paste
Odour	Vinegar smell
Specific gravity	0.97 ± 0.05
Hardness (Shore A)	18 – 25
Elongation	400 %
Tensile strength	1.3 MPa approx.
Tack free time	15 minutes
Application temperature	-20°C to +50°C
Service temperature	-40°C to +100°C
Shelf life	12 months

STORAGE

Material should be stored in a dry and cool place between +5°C to +30°C.

CAUTION

Read and understand material safety data sheet of this product before handling or using.

This information is provided in good faith and is believed accurate based on a review of current composition and information supplied by vendors. No warranty is expressed or implied. Liability is expressly disclaimed.