

AXIOM 25™ 100% SILICONE

AXIOM, LTD.

High performance, high modulus, one component, acetoxy cure silicone sealant.

Product Description

Axiom 25™ is an easy to apply, one component sealant that cures to a durable, flexible silicone rubber upon exposure to atmospheric moisture.

Axiom 25™ was formulated for use with all solid surface products, engineered stone, cultured marble, and other non-porous surfaces. Axiom 25™ is a highly flexible, fast-curing silicone sealant which accommodates joint movement of +/- 25 percent.

Basic Uses

Axiom 25™ can be used for:

- Sealing sheets and strips for bathtub and shower surrounds.
- Other wall applications.
- Fastening and sealing windowsills.
- Fastening and sealing side and backsplashes to kitchen countertops and vanities.
- Hygiene seals in refrigeration and food preparation areas.
- General industrial use.

Features

- Excellent gunnability throughout a wide temperature range -35°F to 160°F (-37°C to 71°C).
- Excellent unprimed adhesion to most common non-porous substrates.
- Long product life expectancy.
- Highly resistant to ultraviolet light, ozone, moisture, mildew, and extreme temperature variations.
- Dry tools easily to a smooth, attractive finish.
- Good tear resistance.
- Excellent movement capabilities (+/- 25%).
- Rubberlike properties are maintained throughout product life.
- Service temperature range -65°F to 300°F (-54°C to 149°C).
- Skins quickly.
- No special cold storage requirements are necessary.

Limitations - Not For

- Glazing of insulated glass units sealed with two-part silicone secondary seals.
- Exterior below grade use.
- Continuous water immersion.
- Applications over tars, asphalt or materials that bleed oils, plasticizers or solvents.
- Porous substrates.
- Applications in airtight enclosures as the sealant requires atmospheric moisture to cure.
- Horizontal traffic joints.

Packaging

Axiom 25™ is available in 10.3 fl. oz. (305 ml) cartridges, 12 cartridges per case/140 per skid. Bulk packaging (5, and 55 gallon containers) is available by special request.

Colors (Product Code)

Translucent: White (AX25WH), Beige (AX25BE), Gray (AX25GY), Rose (AX25RO), Green (AX25GR), Blue (AX25BL), Charcoal (AX25CH), Earth (AX25ER)

Typical Properties

These values are not intended for use in preparing specification.

As Supplied

Flow, Sag or Slump	Nil
Tack-Free Time at 77°F (25°C), 50% RH mins.	15
Tooling Time, minutes	5-15

As Cured - After 7 days 77°F(25°C) and 50% RH

Durometer Hardness, Shore A, points	27
Ultimate Tensile Strength, PSI (MPa)	245(1.58)
Tear Strength, PPI (kN/m)	25(4.4)
Peel Strength, PPI (kN/m)	20(3.5)
Movement Capability, percent	+/-25
Staining	None
Weathering (6,000 hours in Atlas Weatherometer)	No change in hardness or color
Shelf life, Months	12
Extrusion Rate, g/sec	500-600

AXIOM 25 LTD.

9845 Main Street #240

Clarence, NY 14031

716-691-4990 Fax 716-691-8414

Application Standards

- Axiom 25™ meets or exceeds the test requirements of:
- Federal Specification TT-S-0001543A (COM-NBS) Class A.
 - Federal Specification TT-S-00230C (COM-NBS) Type II, Class A.
 - ASTM Specification: C-920 Type S, Grade NS, Class 25, Use T, NT, M, G, A: and GSA (C.I.D.) No. AA-1556 Type S, Grade NS, Class 25, Use T, NT, M, G, A.
 - FDA-USDA Approved under food additive regulation 121.2514.

Storage Life

Product Shelf life is 12 months under normal storage conditions of 80°F (27°C) or less. No special cold temperature storage provisions are required.

Availability

Immediately available from Axiom 25™ Distributors and distribution centers strategically located throughout the U.S.

Cost

Cost information is available from your local Axiom 25™ Representative, Distributor or by calling our Customer Service Department. For information call Axiom at 1-716-894-1561.

Bead Configuration for General

Purpose Sealing

Axiom 25™ should have a ratio of approximately twice the joint width to sealant depth. The sealant depth should be not less than 3/16" (4.8mm, minimum) and not greater than 1/2" (12.7mm, minimum). See table below.

Joint Width-to-Depth Recommendations for General Purpose Sealing

A. Width	1/4	3/8	1/2	5/8	3/4	7/8	1
B. Depth	3/16	3/16	1/4	3/8	3/8	3/8	1/2
C. Lineal ft./gal	410	275	154	82	69	59	36

Surface Preparation for Solid Surface, Engineered Stone, Cultured Marble, and Other Non-porous Surfaces

Clean and dry surface so it is dust-free, frost-free and soap-free. Clean surfaces **only** with denatured alcohol making sure surface is dry.

Application

Axiom 25™ can easily be applied with conventional hand or air-powered caulking equipment. The sealant should be applied in a continuous operation with adequate pressure to fill the joint to the proper width and depth. (Do not overfill the joint.)

Tooling

Dry tool the sealant with light pressure immediately after application to ensure positive and complete contact of the sealant to the joint interfaces.

Masking

Should masking be required, it is recommended the masking tape be removed immediately after tooling, before sealant skins. If necessary, the sealant can be installed below freezing provided the surfaces are clean, dry and frost-free. We recommend, however, for best conditions and performance, that the sealant be applied above 40°F (4°C).

Cure Rate

7 - 14 days

Cleaning

Cleaning of equipment and tools can be accomplished with solvents such as xylol, toluol or methyl ethyl ketone (MEK) while sealant is uncured.

Note to Purchaser:

Axiom 25™ warrants its products conform to Axiom's published specifications. The user shall determine the suitability of the product to their particular application. THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING THOSE OF THE MERCHANTABILITY OR FITNESS FOR ANY PURPOSE NOT EXPRESSLY SET FORTH HEREIN. Manufacturer's and seller's liability for damage hereunder shall not exceed the purchase of the goods used. IN NO EVENT SHALL MANUFACTURER OR SELLER BE RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE USE OF THIS PRODUCT BY BUYER, BUYER'S USERS, OR ANY OTHER PERSON. Notification of any claim must be sent in writing to Axiom. The notice should contain a statement as to how the product failed to meet our warranty, the proof of purchase and the amount of refund claimed.

AXIOM 25 LTD.

9845 Main Street #240

Clarence, NY 14031

716-691-4990 Fax 716-691-8414