

ADSEAL GP 4300 SERIES
GENERAL PURPOSE ACETOXY SILICONE**DESCRIPTION**

ADSEAL 4300 SERIES is a one-component mildew resistant general purposes silicone, thixotropic, non-flowable adhesive sealant that cures rapidly at room temperature and ambient humidity conditions utilizing an acetoxy curing system. It may be used for many types of bonding and sealing applications. Because it does not flow due to its own weight, this sealant can be applied overhead or on sidewall joints and surface without sagging, slumping, or running off.

ADSEAL 4300 SERIES CAN NOT BE PAINTED.

ADSEAL 4300 SERIES has good resistance to weathering, vibration, moisture, ozone, and extreme temperature. It adheres to glass, aluminum, most painted metals, most type of wood, ceramic, mirror, natural and synthetic fiber. For sealing or bonding on plastic surface we recommend ADSEAL neutral cure silicone. ADSEAL 4300 SERIES can corrode or not adhere to copper, brass (and other copper-containing alloys), magnesium, zinc, and galvanized metals (and other zinc containing alloys).

Due to its vulcanization system in contact with moisture, the depth of the bead should not exceed 13 mm (1/2"), otherwise the sealant cannot vulcanize completely. For applications with a bead depth of more than 13 mm, we recommend a two components silicone. Minimum movement joint size should be 1/4" x 1/4". When completely vulcanized,

SPECIFICATIONS

- Meets American Federal Specifications TT-S-1543A, TT-S-00230C
- Meets ASTM C920
- Meets CAN/CGSB-19.18-M87

LIMITATIONS

- Not recommended for architectural glazing, aquariums, concrete, marble, limestone, lead, zinc, or marine applications
- Not recommended for installing mirrors
- Not recommended in contact with secondary sealants of sealed units
- Not recommended for food and pharmaceutical applications
- Not designed for permanent immersion joints
- Where the sealant is encapsulated and does not have access to ambient humidity
- In contact with strongly acidic or alkaline products
- Not designed for sealing horizontal traffic joints
- Not recommended for movement joint less than 1/4 " or 6 mm (width and depth)
- Not designed for use on plastics applications (use a neutral cure silicone)

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GENERAL PURPOSE ACETOXY SILICONE**PHYSICAL PROPERTIES**

Uncured at 23°C (73°F) 50% R.H.	
Appearance	Pasty
Color	Translucent (4301), White (4302), Black (4303), Aluminum (4309), ultra clear (4311) Almond (4321)
Density	0.965
V.O.C.	119.2 g/L
Viscosity	185,100 cPs
Tack free time (ASTM C679)	± 21 minutes
Full cure	5 to 7 days ¼" bead at 23°C (75°F)
Rheological properties (ASTM C639)	0.1"
Shelf life	12 months from date of delivery in original unopened container at 27°C (80°F)

Cured 21 days at 23°C (73°F) - 50% R.H.	
Hardness (shore A) (ASTM D2240)	17
Elongation at break (ASTM D412)	1403 %
Maximum Tensile strength (ASTM D412)	216psi
Tensile strength at 100% elongation (ASTM D412)	72psi

APPLICATION

- Sealing trailers
- Truck box sealing
- Cabin sealing of transport vehicles
- Sealing recreational vehicles
- Aluminum window manufacturing
- Kitchen and bathroom

SURFACE PREPARATION

Surface must be free of dust, oil, grease, frost, or any other contaminant. On porous surface, first use mechanical tool such as grinder to remove old sealant or any other contaminant. Use ADSEAL CLEANER 6003 to clean all surfaces. Let it evaporate 20 minutes before sealant application. Ensure that the backer rod ADSEAL BACKER ROD is friction fitted properly and ADSEAL PRIMER MK60095 have been applied if necessary. When using ADSEAL PRIMER MK60095, let the primer evaporate for 20 minutes prior to ADSEAL 4300 SERIES application.

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GENERAL PURPOSE ACETOXY SILICONE**METHOD OF USE**

ADSEAL 4300 SERIES is easy to apply with a conventional manual, electric or pneumatic applicator (do not exceed 45psi for a cartridge). Shape the sealant bead with the ADSEAL TOOLING KIT before skin formation. In order, to facilitate the work, the shaping can be done with a solution of 5% clear dish soap and 95% water. Dip the ADSEAL TOOLING KIT into the solution. Avoid applying solution directly to the sealant. The use of this solution may reduce sealant adhesion if used in an abusive manner. Uncured sealant can be clean with a solvent such as mineral spirit. Bead surface contact should be at least 1/4".

TEMPERATURE APPLICATION

Sealants from the ADSEAL product line can be applied throughout the year, even in winter, unlike organic sealants such as polyurethanes, thermoplastics or any solvent-based adhesives or sealants. Never apply sealant in weather conditions where condensation or precipitation exists such as rainfall, freezing rain, snow or intense fog. Make sure the surface is free of frost. The temperature of the silicone sealant must be the same as the substrates. Avoid applying a warm sealant to a cold surface. The lower the temperature, the longer the sealant will take to vulcanize.

*****Beware of large fluctuations of ambient and material temperatures.** For example, when there is a large variation in temperature over a short period of time, the substrates may have more extensive elongation and compression movements. In a situation such as this, the sealant has not had enough time to form a thick enough skin, which can in some cases cause cracking or wrinkling/swelling at the joint. If such phenomena occur, it will be necessary to repair the joint. Such phenomena tend to occur especially on darker material colors and when exposed to the south side of the building.

PACKAGING

- 304ml cartridge
- 400ml sausage

STORAGE

Store the sealant in closed original packaging. Store in dry premises at a temperature lower than 25°C (77°F). Expiration date is indicated on each container. Storage beyond the date specified on the container does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality insurance reasons. Contact our technical service.

ADSEAL GP 4300 SERIES
GENERAL PURPOSE ACETOXY SILICONE**CAUTION**

Always consult SDS (Safety Data Sheet) before using the product. Apply usual hygienic rules. Always test the product on your application before use. For industrial use only. For more information, please contact your technical representative.

IMPORTANT**READ CAREFULLY**

The information and recommendations contained herein are derived from our research and information from other reliable sources. This data applies only to our products and not when used with other products. We believe in the reliability of our information. However, no guarantee is offered to that effect. It is the responsibility of the buyer to verify this data according to their own operating conditions to ensure that they conform to the purpose for which the product is intended, even before using it.

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