

## ADSEAL KB 4800 SERIES

### MILDEW RESISTANT ACETOXY SILICONE ADHESIVE SEALANT

#### DESCRIPTION

ADSEAL KB 4800 SERIES is a one-component general purpose 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 KB 4800 SERIES can be used in food processing plants or clean rooms (indirect contact) after 28 days curing at 23°C (73°F) 50% R.H.

#### ADSEAL KB 4800 SERIES CAN NOT BE PAINTED.

ADSEAL KB 4800 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 KB 4800 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, ADSEAL KB 4800 SERIES is resistant to permanent temperatures of -58°C to 204°C (-70°F to 400°F) and maximum intermittent temperature 250°C (482°F).

#### SPECIFICATIONS

- Meets CAN / CGSB standards 19.13-M87 and CAN/CGSB-19.22-M89
- Meets ASTM C920, type S, NS grade, class 25, use NT, G, A, O.
- Meets American Federal Specifications TT-S-1543A, TT-S-00230C
- CFIA accepted
- Indirect contact food applications



#### LIMITATIONS

- 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 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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### PHYSICAL PROPERTIES

Uncured at 23°C (73°F) 50% R.H.	
Appearance	Paste
Color	Translucent (4801), white (4802), black (4803) and aluminum (4809). Special colors available upon request.
Density	1.04 g/ml
V.O.C.	20 g/L
Extrusion rate (20 psi/diameter 5mm)	75 – 350 g/min.
Tack free time (ASTM C679)	15 – 20 minutes at 23°C (73°F) 50% R.H.
Rheological properties (ASTM C639)	No sagging
Shelf life	24 months

Cured 21 days at 23°C (73°F) - 50% R.H.	
Hardness (shore A) (ASTM D2240)	15
Elongation at break (ASTM D412)	408
Maximum Tensile strength	111psi
Tensile strength at 100% elongation (ASTM D412)	43psi
Lap shear (ASTM C961)	24psi
Movement capability (ASTM C719)	± 25%

### APPLICATION

#### Construction

- Sealing cold room
- Kitchen and bathroom
- Waterproofing joints
- Mirror bonding
- Glass partition
- Sign bonding

#### Industrial

- Gasketing
- Refrigerated counter
- Aluminum windows and doors manufacturing
- Sealing appliance parts
- Sealing marine cabins and windows
- Sign bonding

### 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 KB 4800 SERIES application.

**ADSEAL KB 4800 SERIES**  
**MILDEW RESISTANT ACETOXY SILICONE ADHESIVE SEALANT****METHOD OF USE**

ADSEAL KB 4800 SERIES is easy to apply with a conventional manual, electric or pneumatic applicator (do not exceed 45psi for a cartridge). ADSEAL KB 4800 SERIES can be applied at temperatures as low as -20°F (-29°C). 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".

**For all cleanroom, food, and pharmaceutical applications, allow the product to cure for 28 days at 23 ° C (73 ° F) / 50% RH before starting any production.**

**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 or 600ml sausage
- Pail
- Drum

**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 KB 4800 SERIES****MILDEW RESISTANT ACETOXY SILICONE ADHESIVE SEALANT****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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