

## ADSEAL 4520 SERIES WEATHERSEAL NEUTRAL CURE SILICONE SEALANT

### DESCRIPTION

ADSEAL 4520 SERIES is a one-component silicone sealant that vulcanizes to a durable elastic rubber silicone in contact with ambient humidity. Due to its rheological and non-sagging characteristics, it can be applied above the head, over the joints and on surfaces of vertical and horizontal walls. ADSEAL SERIES 4520 has been specially designed to create a lower adhesion on pvc and aluminum when used as a back bedding joint. This makes it easier to replace sealed units during a problem. It adheres well to the glass.

#### ADSEAL 4520 SERIES CAN NOT BE PAINTED.

Due to its neutral vulcanization system, ADSEAL 4520 SERIES is used for caulking applications or when a faster working time is required. It does not give off any unpleasant odor during vulcanization and will not oxidize the metal (discoloration of copper-based metals may occur when sealed tightly). 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 component silicone. Minimum movement joint size should be 1/4" x 1/4".

### 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

### PHYSICAL PROPERTIES

Uncured (23°C (73°F) 50% r.h.)	
Appearance	Pasty
Color	4521. Special colors upon request.
Density	1.04
V.O.C.	42.36 g/L
Extrusion rate (20 psi/diamètre 5mm)	45 – 400 g/min
Tack free time (ASTM C679)	25 minutes
Rheological properties (ASTM C639)	No sagging
Shelf life	12 months

Cured (21 days at 23°C (73°F) 50% r.h.)	
Hardness (ASTM D2240)	20 shore A
Elongation at break (ASTM D412)	774%

### APPLICATION

- Windows back bedding
- Any application requiring a lower adhesion to facilitate disassembly

**ADSEAL 4520 SERIES**  
**WEATHERSEAL NEUTRAL CURE SILICONE SEALANT****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 BR-2600 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 4520 SERIES application.

**METHOD OF USE**

ADSEAL PRODUCTION 4520 SERIES is easy to apply with a conventional manual, electric or pneumatic applicator (do not exceed 45 psi for a cartridge). Make the assembly before formation of skin. 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 in temperature especially below freezing point. For example, when temperatures reach well below freezing point in a short period of time, the substrates may have a large elongation/compression movement. The sealant will not have enough time to form a fairly thick skin, which in some cases, may cause a breakage or wrinkling at the joint. If such phenomenon occurs, proceed with an adhesion test.**

**PACKAGING**

- 304ml cartridge
- 400 ml and 600ml sausage
- Pail
- Drum

**ADSEAL 4520 SERIES**  
**WEATHERSEAL NEUTRAL CURE SILICONE SEALANT****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.

**CAUTION**

Always consult sds 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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