

CALSIL Machinery & Equipment



ADH 31 AW

1 Part self levelling high temperature adhesive sealant

1. Product Description:

CALSIL ADH 31A W is a ready-to-use adhesive sealant, which reacts with atmospheric moisture to form a resilient rubber, which remains flexible over a very wide temperature range.

CALSIL ADH 31 AW liberates a very small amount of acetic acid during cure which gives rise to the familiar vinegar+odour, which quickly dissipates after cure.

2. Key Properties

- Flexibility from - 60 to +300°C
- Resistant to solvents and chemicals
- Good electrical insulation properties
- Excellent bonding to a wide range of substrates
- FDA compliant

3. Applications

CALSIL ADH 31 AW is an excellent multi-purpose adhesive for applications such as form-in-place gaskets for junction box covers, ashing appliance trim and sealing appliance parts, letters and signs, sealing joints in ductwork, truck trailers, cabs, marine portholes and cabins. It is an excellent adhesive for general industrial sealant or bond. **CALSIL ADH 31AW** develops a tack free surface in approximately 15 minutes and cure within 24 hours.

4. Typical Properties (not for sales specifications, please contact us prior to writing sales specs)

Properties	Units	Values
Uncured Product		
Chemical characterization		1 Part Acetoxy RTV
Colour		White
Appearance		White viscous liquid
Specific Gravity		1.14
Viscosity	mPa.s	210 000
Extrusion Rate	Gr/minute	92
Tack Free Time	minutes	10 *
3mm Cure Through	hours	< 12 *
<i>*measured at 23+/-2°C and 65% relative humidity.</i>		
Cured Elastomer (after 7 days cure at 23+/-2°C and 65% relative humidity)		
Tensile Strength	MPa	2.93
Elongation at Break	%	180
Young Modulus	MPa	1.59
Modulus at 100 % Strain	MPa	1.71
Tear Strength	KN/m	6.20
Hardness	Shore A	43
Thermal Conductivity	W/mK	0.20
Min Service Temperature	°C	- 60
Max Service Temperature	°C	300

Electrical Properties		
Volume Resistivity	.cm	3.49E+16
Surface Resistivity	.cm	4.35E+15
Dielectric Strength	kV/mm	20
Dielectric Constant at 1 MHz		3.50
Dissipation Factor at 1 MHz		2.5E-3

5. How to use

All surfaces to which the adhesive is to be applied should be clean, dry and free from grease, dirt, and loose material. Priming of surfaces is not normally required.

If being employed as an adhesive, it should be applied to one clean surface and the other clean surface brought into contact with it within 5 minutes.

For optimum bond strength the thickness of the sealant joint is 1 to 2mm.

Joints should be left undisturbed for at least 24 hours, but preferably longer to effect sufficient depth of cure.

Full cure requires 7 days.

For pneumatic dispensing of 310 ml cartridges, the recommended pressure is 2.25 to 3.45 bar (40 to 50 psi).

6. Safety Handling Information

Product Information relative to security, physical and health hazards are in the Material Safety Data Sheet (MSDS) supplied with the product or upon request.

7. Storage and Shelf Life

Expected to be 24 months in original, unopened containers below 40 °C.

8. Packaging

310 ml cartridges and 20 L pails.

9. Restrictions

This ingredient is solely proposed in industrial applications. It is not suitable to be used in cosmetic, medical, human injection, pharmaceutical applications.

10. Limited Warranty PLEASE READ CAREFULLY

The information herein is offered in good faith. It is believed to be accurate at the time of shipment.

It should not be used as a substitute for the customer's test, the customer bears the responsibility to ensure that the product matches the intended application is safe and achieves the desired benefits.

The product warranty is limited to the refund value of the purchase or the replacement only when it demonstrated that the product is out of the agreed sales specifications.

CALSIL[®] is a registered trademark of CALDIC BV. All rights reserved.

For more information, please contact our nearest office

calsil@caldic.com

www.calsilsilicones.com