

CALSIL Machinery & Equipment

ADH 42 R 1 Part neutral high temperature thixotropic adhesive sealant



1. Product Description:

CALSIL ADH 42 R is a non-corrosive, 1-part, room temperature vulcanizing (RTV) silicone rubber. It is one of a new family of products called acetone cure sealants that are solvent free.

It exhibits excellent primerless adhesion to many substrates.

The product is cured rapidly in contact with atmospheric moisture to a tough rubber.

It does not corrode copper or its alloys and exhibits excellent primerless adhesion when fully cured.

2. Key Properties

- Very good temperature resistance to 300°C
- Solvent free
- Fast skinning
- Excellent adhesion to many substrates

3. Applications

- Assembly of electrical and electronic equipment
- Sealing of corrosion sensitive devices
- Waterproofing of connections and terminals

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

Properties	Units	Values
Uncured Product		
Chemical characterization		1 Part Acetone RTV
Colour		Red
Appearance		Thixotropic paste
Specific Gravity		1.1
Extrusion Rate	Kg/minute	180
Tack Free Time	minutes	4 *
3mm Cure Through	hours	8 *
<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	1.70
Elongation at Break	%	270
Tear Strength	kN/m	6.31
Hardness	Shore A	50
Thermal Conductivity	W/mK	0.20
Min Service Temperature	°C	- 50
Max Service Temperature	°C	300

Electrical Properties		
Volume Resistivity	.cm	2.50 E+15
Dielectric Strength	kV/mm	21
Dielectric Constant at 1 MHz		3.05
Dissipation Factor at 1 MHz		1.2 E-3

5. How to use

All surfaces to which the sealant is to be applied should be clean, dry and free from grease, dirt, and loose material.

Priming of surfaces is not normally required.

If using as an adhesive, it should be applied to one clean surface and the other clean surface brought into contact with it within 15 to 20 seconds.

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.

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 12 months in original, unopened containers below 40 °C.

8. Packaging

310 ml cartridges

9. Restrictions

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