

Technical data sheet

GEBOSIL ACETIC SEALANT High Temperature - SIL16

Product description

One Component Silicone Sealant for High Temperature Construction Applications.

These high quality products are ready-to-use, one part acid-curing silicone sealants. The applied sealant reacts with atmospheric moisture to produce a highly elastic silicone rubber. The products are specifically designed and recommended for high temperature applications.

Characteristics

- Non-sagging behaviour for horizontal, vertical and overhead applications
- Solvent free, low shrinkage
- Fast curing at room temperature
- Adhesion to many substrates, like glass, ceramic tiles, enamel, eloxal. Some surfaces require the use of primers.
- Flexibility at low (-40 °C) and high (270 °C) temperature
- Excellent resistance to weather, ozone, UV and chemicals
- Excellent heat resistance up to 270 °C for long periods and up to 300 °C for short exposures.

Applications

It is particularly recommended for sealing and joining construction applications where high heat resistance is required for long periods.

Technical Data

UNCURED PROPERTIES		
Specific gravity	g/cm ³	1.03
Application rate, 6 mm orifice, 2 bar	g/minute	230
Sag, ISO 7390	mm	< 2
Tack free time, at 23 °C, 50 % rel. humidity	minutes	7-15
Application temperature	°C	+ 5 / + 40
CURED PROPERTIES		
Hardness, DIN 53505	Shore A	25
Tensile at 100 % elongation, ISO 8339	MPa	0.52
Tensile at break, ISO 8339	MPa	0.58
Elongation at break, ISO 8339	%	130
Temperature resistance	°C	- 40 / + 270

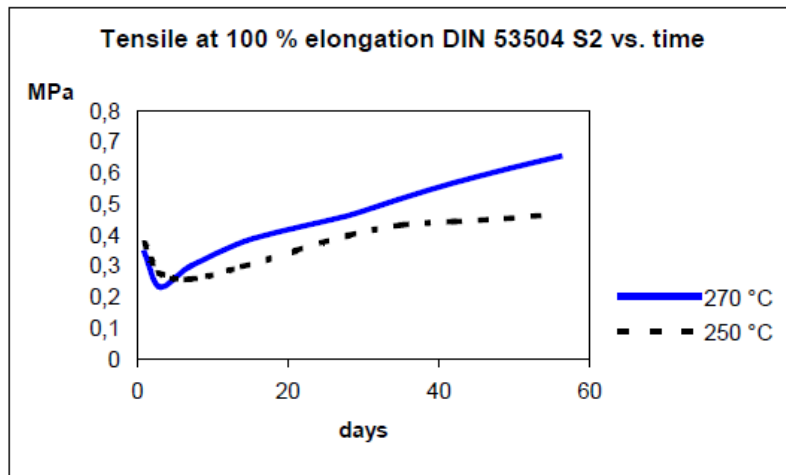
Values listed are indicative and should not be used as specification.

Temperature Resistance

This product family is designed to withstand high temperatures whilst retaining excellent elastic properties. The following table shows the hardness (Shore A) of the cured material after exposure to 250 °C and 270 °C for 500 and 1000 hours.

Hardness, Shore A DIN 53505	250°C	270°C
After 0 hours	25	25
After 500 hours	22	15
After 1000 hours	30	27

Monitoring the tensile value at 100% elongation of a cured sheet (14 days at 23 °C / 50% relative humidity) of 2 mm thickness over 60 days reveals excellent heat stability. Even after 8 weeks at 270 °C the product still retains elastomer like characteristics.



Handling and Safety

Material safety data sheets are available upon request from G&B Fissaggi srl. Avoid contact of the uncured material with skin, eyes and clothing. In case of contact with eyes, flush immediately with plenty of water and seek medical attention. Avoid oral contact. Use only in well ventilated areas. Keep out of reach of children. Please see safety data sheet.

Shelf life and storage

Shelf life is **30 months** from date of manufacture (see use before date on drum label) when stored in original, unopened containers below 25°C in a dry place. Storage outside in freezing conditions or above 25°C should be avoided.