



Scotch-Weld™ Silicone Sealant 320

Product Data Sheet

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Supersedes: New

Product Description

Silicone Sealant 320 is a one part, low modulus, neutral (oxime) system silicone sealant that cures with the atmospheric moisture producing a flexible rubber extremely resistant. It does not contain corrosives or does not release a strong odor. Silicone Sealant 320 preserves all properties of elasticity and adherence with no aging problems, remaining stable of atmospheric agents.

Key Features

Silicone Sealant 320 is a high quality sealant. It has an excellent adherence to most substrates used in constructions as glass, aluminum, concrete, PVC, etc. Specifically recommended for:

- Concrete to concrete joints sealing.
- Water tightness joints sealing between concrete and structural Carpentry
- Windows sealing
- Sealing of transformed and treated glass
- Sealing of prefabricated concrete pieces
- All applications where odorless mastic is needed

Typical Uncured Properties

Properties	Silicone Sealant 320
Viscosity	pasty
Sagging (flow) DIN EN ISO 7390	<5 mm
Application temperature	+ 5 °C to + 40 °C
Skin formation time DIN EN ISO 291	<5 min
Tack-Free Time DIN EN ISO 291	9 min
Density (kg/l) DIN EN ISO 2811-2	1,015 1,025 (White)

Typical Cured Properties

Properties	Silicone Sealant 320
Colour	Transparent, White, Black
Hardness, Shore A - DIN 53505 Curing 7 days, 50%HR 23C	23
Modulus at 100% - DIN 53 504 (MPa)	0,4
Elongation at break ISO 8339	150 %
Cure Rate (mm/24h) DIN EN ISO 291	2,9

Performance Characteristics

Service Temperature Range	- 40 °C to + 150 °C
Water Resistance	good
Weathering Resistance	good
UV Light Resistance	good
Fuel and Oil Resistance DIN 52 452-2 Procedure: -7 days conditioning acc. EN ISO 291 (23°C / 50% r.h.) -Immersion in motor oil for 7 days at 23°C 50% r.h. -Cleaning and storage for 1 hour at 23°C 50% r.h. -Both immersed and reference specimens are tested: .Shore A Hardness acc. DIN 53 505 .Modulus at 100% of elong. acc. DIN 53 504 -Tested results are compared with the reference ones.	
Hardness, Shore A - DIN 53 505 Modulus at 100% - DIN 53 504 (MPa)	19 (-17%) 0,36 (-10%)
Modulus at 100% ISO 8339	0,35 MPa
Tensile Strength ISO 8339	0,40 MPa

Storage

Store 3M Silicone Sealant 320 in the original, un-opened containers at 15 °C – 25 °C for maximum shelf life. Rotate stock on a “first in-first out” basis

Shelf Life

When stored at the recommended conditions in original un-opened containers, Marine Silicone Sealant 320 has a shelf life of 12 months after date of manufacture.

Precautionary Information

Refer to product label and Material Safety Data Sheet for health and safety information before using the product.
For information please contact your local 3M Office.
www.3M.com

For Additional Information

To request additional product information or to arrange for sales assistance, call.....
Address correspondence to: 3M

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