

TECHNICAL INFORMATION

BEST-Silicone 401

BEST-Silicone 401 is a one component, oxim interlacing silicone rubber adhesive and sealant with long-lasting elasticity, resistance to extreme temperature up to 300° C and strong adhesion

BEST-Silicone 401 is designed for long-lasting elastic and heat resistant sealing and bonding of metals, ceramics, plastics and glass. It is preferably used for electrical equipment, electronic components, heating boilers, tool making and engineering.

Typical Properties

Fast curing, very high temperature resistance, very good shear strength on different materials, long-lasting elasticity.

The product maintains its properties even when exposed to strong chemical, heat and atmospheric conditions.

Curing

- curing to a permanently elastic material at room temperature by atmospheric humidity
- a small amount of oxim is released during curing, which is neutral and non-corroding
- a dry skin is formed after 5-20 minutes
- curing of the silicone rubber with approx. 2 mm / 24 h
- Humidity below 40 % may reduce curing properties

Directions for use

- the product is ready for use from the original container after bevelled cutting of the nozzle.
- applied in dots or beads on the bonding surfaces
- assemble bonding parts immediately afterwards with short and strong pressure
- if necessary surfaces can be flattened with a wet spatula
- Surfaces to be bonded should be dry, free from dust, grease and other contaminants
- **BEST-Clean** cleaners are recommended for cleaning

Product characteristics

Chemical Type	silicone elastomer
Curing system	by atmospheric humidity
Colour	red-brown
Viscosity (Brookfield)	paste-like
Density (DIN EN 542)	1,3 x 10³ kg/m³
Bonding gap	10,0 mm
Shelf life	1 Year
Storage in unopened container at 10 to 23°C)	

**Curing time at 23°C**

Skin formation time	10 - 20 min.
Deep curing (50% atmospheric humidity)	3 mm/24h
Processing temperature	-20 to +50°C
Shrinkage (DIN 52 451)	approx. 2 vol. %

Strength of cured Material

Tensile strength (DIN EN ISO 527)	2,60 N/mm²
Elongation at break (DIN EN ISO 527)	300%
Long-time Temperature range	-40°C to +200°C
Short-time	up to +250°C
Shore hardness A (DIN 53505)	30
Reset ability (DIN 52 458)	75 %

Industrial health and safety standards

This mixture is not classified as dangerous according to Regulation (EC) No. 1272/2008. General knowledge for safe handling of chemicals is recommended. Please consult EU – Safety Data Sheet for further information.

General

The data and information above correspond to the current know-how of BEST-Klebstoffe GmbH & Co. KG. Our information and data have been developed from laboratory tests and extensive practical experience. They shall not release any customer from its duty to perform receiving inspections and to do test runs in view of any intended use, nor do they constitute a representation that any product will have specific properties or be suitable for any definite use.

BEST-Klebstoffe GmbH & Co. KG reserves the right to change the contents of this document as necessary.

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