

Instructions for using ergo.[®] single-component RTV silicones

General

ergo.[®] silicones are single-component adhesives and sealants based on polysiloxane connections.

They are used as permanently elastic adhesives and as sealants in electrical engineering, the automotive industry, mechanical engineering, precision engineering and glass construction.

Curing

ergo.[®] RTV one-component silicone adhesives cure under the influence of humidity. Curing begins on the surface of the silicone and proceeds toward the inside at a rate of approximately 2 mm in the first 24 hours at room temperature and with about 50% relative humidity. Adhesive bonds of large surfaces and high-layer thicknesses cure more slowly because once the outer layers have cured, humidity cannot penetrate the product as quickly.

Higher relative humidity accelerates the curing process, whereas lower humidity slows the process down. As low-molecular weight cleavage products are formed as the silicone cures, the substrates should be pretested to determine whether this degrades the integrity of the components.

Preparation of mating surfaces

For optimum bond strength, mating surfaces must be free of oil, grease and other contaminants.

ergo.[®] 9195 is suitable for cleaning glass, and ergo.[®] 9190 can be used to clean metals.

In any event, we recommend that the suitability and strength of the product is pretested for its intended use. In many cases, the as-delivered condition of the components meets requirements.

Application

The products are supplied ready for use in self-draining pressure cans. The containers can be used by hand directly. Please note that a skin starts to form on the surface of the silicone after about five minutes and, as a result, the two substrates may no longer be able to absorb moisture.

To obtain the best adhesion and sealing results, the product application and joining process must be completed within this timeframe.

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