

Instructions for using single-component RTV silicones

General information

Silicones are single-component adhesives and sealants based on polysiloxane compounds. They are used as permanently elastic adhesives and as sealants in the mechanical, precision and electrical engineering, the transportation industry, automotive aftermarket (AAM), maintenance (MRO) and glass construction.

Curing

RTV single-component silicone adhesives cure under the influence of humidity. Cure starts at the surface of the silicone and proceeds inwards at a rate of approximately 2 mm in the first 24 hours at room temperature and approximately 50% relative humidity. Bondings with large surfaces and thick layers will cure more slowly because once the outer layers have cured, humidity cannot penetrate the product as quickly.

Higher relative humidity accelerates the curing process, while lower humidity slows it down. As low molecular weight cleavage products are formed as the silicone cures, the substrates should be pre-tested to determine if this will affect the integrity of the materials.

Preparation of mating surfaces

For optimum bond strength the mating surfaces must be free of oil, grease and other contaminants. 9195 is suitable for cleaning mainly plastics, 9190 is suitable for cleaning mainly metals, but both can be used on other surfaces as well.

In any case, we recommend checking the suitability and strength of the product for the intended use in advance. In some cases, the delivery condition of the substrates as supplied will meet the requirements.

Application

Packaging / container: 200ml pressure can

The products are supplied ready to use in self-draining pressure cans. The cans can be processed directly by hand.

Packaging / container: 310ml euro-cartridge

The RTV silicone can be applied with the following dispensing guns:

4472307 pneumatic dispensing gun

4472304 manual dispensing gun

Please note that after approximately five minutes a skin will begin to form on the surface of the silicone and the two substrates may then no longer be able to absorb moisture. To achieve optimum adhesion and sealing result, the product application and bonding process must be completed within this time.

Pictures of the available packaging / containers of 3110* as an example



* Please refer to the individual product pages on the website, in the overview brochures or contact us to find out in which containers the other RTV silicones are available.

Precautions

For your own safety, please refer to the information of the concerned MSDS and for the correct handling the "technical datasheet".

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