

ELASTOSIL® A07

RTV-1 SILICONE RUBBER / ADHESIVE

Product description

ELASTOSIL® A07 is a free flowable, solvent-based RTV-1 silicone dispersion. It cures at room temperature or elevated temperature by reaction with air humidity to a flexible silicone coating. During cure it splits off an organic amine.

Special features

- ready-to-use, one-component system
- low viscosity
- low module
- solvent bourn
- excellent primerless adhesion to many substrates

Application

- Multipurpose sealant and coating material.

Processing

ELASTOSIL® A07 can be applied by dipping, spraying, brushing or coating. Thinner coatings can be obtained by addition of solvents (e.g. toluene, white spirit), thicker coatings can be realised by multiple step coating.

ELASTOSIL® A07 contains about 25% of solvent (b.w.) therefore suitable equipment has to be used and precaution measures due to the solvent vapours have to be taken.

ELASTOSIL® A07 is a one-part room temperature curing coating therefore the curing rate depends on

temperature and on atmospheric humidity. The curing rate can be accelerated by heat exposure or exposure to carbon dioxide concentration above 1% p.b.v.

Uncured or partially cured silicone can be removed by help of organic solvents such as alipatic or aromatic hydrocarboncleaning should take place before the rubber is fully cured. Once completely cured, only mechanical removal supported by prior solvent swell is possible. Swelling can be accelerated by elevated temperature. In thin films, Wacker Silicone Remover S8 is suited as well.

We recommend running preliminary tests to optimize conditions for the particular application. Comprehensive instructions are given in our leaflet "ELASTOSIL® RTV-1 Silicone Rubber".

Storage

The 'Best use before end' date of each batch is shown on the product label.

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>.

Product data

Typical general characteristics	Inspection Method	Value
Product data (uncured)		
Color		colorless
Density	DIN 51757	0,98 g/cm ³
Viscosity, dynamic at 25 °C		8000 mPa.s
Solvent content (toluene)		25 %
Skin-forming time, 23 °C, 50 % RH		3 min
Curing time, 23 °C, 50 % RH		12 h/mm
Shrinkage		30 %
Product data (cured)		
Density at 23 °C	ISO 2781	1,02 g/cm ³
Hardness Shore A	ISO 868	20
Elongation at break	ISO 37	300 %
Tensile strength	ISO 37	1,5 N/mm ²
Tear strength	ASTM D 624 B	4,0 N/mm

2 mm, 14 d storage at 20 °C, 50 % RH

These figures are only intended as a guide and should not be used in preparing specifications.

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001

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For technical, quality, or product safety questions, please contact:

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