

WACKER® CATALYST T 77

Product description

Catalyst paste for crosslinking condensation-curing two-part silicone rubber grades (RTV 2).

Special features

- thixotropic paste
- fast curing at room temperature
- cured rubbers show good self-adhesion to various substrates, such as metals, glass, ceramics, wood and plastics
- vulcanization times can be tailored by changing the mixing ratio

Application

WACKER® CATALYST T 77 is used and processed in combination with condensation-curing two-part silicone rubber grades (RTV-2). The vulcanization time can be adjusted to requirements by varying the ratios of components A and B.

The pot lives listed below indicate the time within which the material still spreads at 23 °C and 50 % r.h.

Varying the mixing ratio of components A and B within the range indicated above generally has little effect on the mechanical properties of the cured rubber. However, if the ratios are changed substantially, preliminary tests should be carried out to determine the material properties.

The cured rubber obtained with WACKER® CATALYST T 77 and the above-mentioned A component adheres well to a broad range of materials. For many substrates, the adhesive strength is generally independent of the type of A component used.

The processor must carry out preliminary tests to determine the optimum conditions for a particular application. Detailed instructions for preparation and use are given in the product data sheet "WACKER RTV-2 Silicone Rubber – Processing."

Substrate	Adhesive strength
Glass, aluminum, stainless steel	Very good
Softwood	Usually very good
Polyamide 6	Good to very good
Others, such as polyamide 66 or PBT	Various

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		black
Viscosity, dynamic at 23 °C	DIN EN ISO 3219	approx. 150000 mPa.s
Density at 23 °C	DIN 53479	approx. 1,1 g/cm ³
Pot lives/curing rates		
Mixing ratio, A : B		
Curing characteristics Fast ¹	8 : 1	15 - 30 min
Curing characteristics Fast ¹	12 : 1	35 - 60 min
Curing characteristics Medium ²	8 : 1	45 - 60 min
Curing characteristics Medium ²	12 : 1	100 - 120 min
Curing characteristics Slow ³	8 : 1	75 - 90 min
Curing characteristics Slow ³	12 : 1	> 120 min
Curing rates (tack-free)		
Mixing ratio, A : B		
Curing characteristics Fast ¹	8 : 1	0,75 - 1 h
Curing characteristics Fast ¹	12 : 1	1 - 2 h
Curing characteristics Medium ²	8 : 1	1,5 - 2 h
Curing characteristics Medium ²	12 : 1	5 - 6 h
Curing characteristics Slow ³	8 : 1	> 2,5 h
Curing characteristics Slow ³	12 : 1	> 6 h

¹e.g. in combination with A component ELASTOSIL® RT 426 or ELASTOSIL® RT 428 or M 4470

²e.g. in combination with A component ELASTOSIL® RT K or ELASTOSIL® RT 563

³e.g. in combination with A component ELASTOSIL® M 4503 or ELASTOSIL® M 4511

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

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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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