

ELASTOSIL[®] RT 724

Room Temperature Curing Silicone Rubber (RTV-2)

ELASTOSIL[®] RT 724 is a pasty, thixotropic, addition-curing, 2-part silicone rubber that cures to a soft silicone rubber either by UV-light exposure or heat exposure when mixed with the platinum catalyst part ELASTOSIL[®] CAT UV or ELASTOSIL[®] CAT PT.

Properties

- 10:1 mixing ratio
- Pasty, thixotropic
- Easy dispensing
- Compatible with addition curing silicones
- Room temp curing with ELASTOSIL[®] CAT PT
- Fast curing with ELASTOSIL[®] CAT UV after UV-light activation
- Good bonding to glass, PA6 or PBT

Technical data

Properties Uncured

Property	Condition	Value	Method
Color	-	black	-
Density	23 °C	0.99 g/cm ³	DIN EN ISO 2811-2
Viscosity, dynamic	25 °C 0.5 1/s	550000 mPa·s	ISO 3219
Viscosity, dynamic	25 °C 25 1/s	25000 mPa·s	ISO 3219

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

Catalyzed

Property	Condition	Value	Method
Viscosity, dynamic	25 °C 0.5 1/s	450000 mPa·s	ISO 3219
Viscosity, dynamic	25 °C 100 1/s	20000 mPa·s	ISO 3219
Mix ratio	-	10 : 1	A : B
Pot Life catalyzed with ELASTOSIL® CAT PT	23 °C	30 min	-
Pot Life catalyzed with ELASTOSIL® CAT UV ⁽¹⁾	23 °C	≥ 8 h	-
Curing time catalyzed with ELASTOSIL® CAT PT	23 °C	180 min	-
Curing time catalyzed with ELASTOSIL® CAT UV ⁽²⁾	23 °C	≤ 3 min	-

¹without UV-irradiation

²UV-B light, 250-350 nm; 3 J/cm²

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Properties Cured

cured at 150°C for 30 min.

Property	Condition	Value	Method
Color	-	black	-
Density	23 °C	0.99 g/cm ³	DIN EN ISO 1183-1 A
Hardness Shore A ⁽¹⁾	-	10	DIN ISO 48-4
Hardness Shore 00 ⁽²⁾	23 °C	45 - 55	ASTM D 2240

¹catalyzed with ELASTOSIL® CAT PT

²catalyzed with ELASTOSIL® CAT PT

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All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

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

Application details

Silicone rubber dam material for optical bonding of displays.

ELASTOSIL® RT 724 is fully compatible with platinum curing WACKER SilGel® and can be even cured wet-in-wet.

Processing

surface preparation

All surfaces must be clean and free of contaminants that will inhibit the cure ELASTOSIL® RT 724.

Examples of inhibiting contaminants are sulfur containing materials, plasticizers, urethanes, amine containing materials and organometallic compounds – especially organotin compounds.

mixing

ELASTOSIL® RT 724 contains the crosslinker, ELASTOSIL® CAT PT or CAT UV contains the platinum catalyst.

The two components should be thoroughly mixed at a 10 : 1 ratio by weight or volume by means of a static mixer.

curing

The system ELASTOSIL® RT 724 / ELASTOSIL® CAT UV (10:1) is activated by direct UV irradiation.

We recommend to use a mercury bulb (e.g. Fe-beam) emitting UV-light of 250-350 nm, preferred 280-320 nm (UV-B).

UV-C light below 250 nm should be excluded, e.g. by means of Quartz filter glass.

Typical UV-light intensity used is 150-200 mW/cm², typical UV-light dose for curing is 1.5-3 J/cm²

Typical UV-light exposure is 150 mW/cm² intensity for 20 sec, resulting in a UV-light dose of 3 J/cm².

Less UV-light dose will increase curing time, higher UV-light dose will shorten curing time.

Maximum dam height for the UV-activation is limited to 2-3 mm depending on the UV-light bulb used.

The system ELASTOSIL® RT 724 / ELASTOSIL® CAT PT (10:1) is cured thermally.

For fast cure, we recommend to use a vented oven or the like.

Packaging and storage

Storage

ELASTOSIL® RT 724 should be stored dry and cool in the tightly closed original container.

The 'Best use before end' date of each batch appears 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

According to the latest findings, the addition-curing silicone rubber ELASTOSIL® RT 724 contains neither toxic nor aggressive substances which would require special handling precautions. General industrial hygiene regulations should be observed.

Detailed safety information is contained in each Material Safety Data Sheet, which can be obtained from our sales offices.

QR Code ELASTOSIL® RT 724



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

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