

ELASTOSIL[®] RD 6620 F



Silicone Rubber Dispersions

Solvent-based addition curing silicone rubber dispersion for textile coatings (topcoat)

Properties

- Matt topcoat
- Reduced coefficient of friction
- High abrasion stability

Technical data

Properties Uncured

Property	Condition	Value	Method
Viscosity, dynamic ⁽¹⁾	23 °C	200000 mPa·s	Brookfield
Density	-	1.05 g/cm ³	ISO 2811
Appearance	-	gray	-
Supply form	-	50 % in xylene	-

¹2.5 rpm

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

Properties Cured

Cure conditions: mixture 100 parts RD 6620 F + 1 parts CROSSLINKER W, 5 min / 165°C

Property	Condition	Value	Method
Density	-	1.37 g/cm ³	DIN EN ISO 1183-1 A
Hardness Shore A	-	80	DIN ISO 48-4
Tensile strength	-	5.5 N/mm ²	ISO 37 type 1
Elongation at break	-	280 %	ISO 37 type 1
Tear strength	-	15 N/mm	ASTM D 624 B
Oxygen index LOI	-	28 %	ASTM D 2863
Electric strength	-	23 kV/mm	IEC 60243-1
Volume resistivity	-	8 x 10 ¹⁵ Ohmcm	IEC 62631-3-1
Dissipation factor	50 Hz	110 x 10 ⁻⁴	IEC 62631-2-1
Relative permittivity	50 Hz	3.3	IEC 62631-2-1

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

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.

Applications

- Architectural Textiles

Application details

ELASTOSIL® RD 6620 F is a silicone rubber dispersion in xylene. Due to the high Shore hardness after vulcanization, a matt, non-blocking surface is obtained.

ELASTOSIL® RD 6620 F is therefore especially well suited for the application as topcoat on flexible silicone coatings.

Processing

ELASTOSIL® RD 6620 F is processed by thorough incorporation of a crosslinker.

Recommended ratio is 100 parts of ELASTOSIL® RD 6620 F plus

- 1 part of CROSSLINKER W

Pot life at 23°C: 3 days

Recommended curing conditions: evaporation of the solvent at 70 - 90°C and curing of the silicone rubber for 3 min at 150°C or 1 min at 180°C.

Adhesion of ELASTOSIL® RD 6620 F depends on substrate and can be varied by crosslinker type/amount and additives (e.g. CATALYST C05 or adhesion promoters). Preliminary testing should be carried out to determine optimum formulation and cure conditions.

Packaging and storage

Packaging

This product is available in 25 kg pails and 180 kg drum kits

Storage

Once opened, containers should always be resealed after use to prevent the platinum catalyst from being poisoned by amines, sulphur or phosphorus compounds.

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>.

QR Code ELASTOSIL® RD 6620 F



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

Wacker Chemie AG, Gisela-Stein-Strasse 1, 81671 Munich, Germany
productinformation@wacker.com, www.wacker.com

The data presented in this medium 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 medium 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 information provided by us does 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 product for a particular purpose.