

ELASTOSIL[®] RD 6600 F



Silicone Rubber Dispersions

Solvent-based, addition curing silicone rubber dispersion for textile coatings

Properties

- Deep penetration into the fabric
- Dry surface touch
- Excellent mechanical properties

Technical data

Properties Uncured

Property	Condition	Value	Method
Viscosity, dynamic (2.5 rpm)	25 °C	70000 mPa·s	Brookfield
Density	23 °C	1.01 g/cm ³	ISO 2811
Appearance	-	colorless	-
Supply form	-	40 % in xylene	-

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

Properties Cured

Cure conditions: mixture 100 parts RD 6600 F + 1 parts CROSSLINKER W, 5 min / 165°C

Property	Condition	Value	Method
Hardness Shore A	-	60	ISO 7619-1
Tensile strength	-	5.5 N/mm ²	ISO 37 type 1
Elongation at break	-	350 %	ISO 37 type 1
Tear strength	-	12 N/mm	ASTM D 624 B
Oxygen index LOI	-	29 %	ASTM D 2863
Electric strength	-	22 kV/mm	IEC 60243-1
Volume resistivity	-	1.9 x 10 ¹⁵ Ohmcm	IEC 62631-3-1
Dissipation factor	60 Hz	150 x 10 ⁻⁴ tan δ	IEC 62631-2-1
Relative permittivity	60 Hz	3.2	IEC 62631-2-1

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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.

Applications

- Industrial Textiles
- Textile & Leather
- Architectural Textiles
- Technical Textiles

Application details

ELASTOSIL® RD 6600 F is a silicone rubber dispersion in xylene. It is well suited to produce textile coatings with good penetration into the substrate and dry surface touch (e.g. conveyor belts and electrical sleeveings).

ELASTOSIL® RD 6600 F can also be further diluted with solvents and used for fine coatings with low add-on weight.

Processing

ELASTOSIL® RD 6600 F is processed by thorough incorporation of a crosslinker.

Recommended ratio is 100 parts of ELASTOSIL® RD 6600 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 6600 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 6600 F



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

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