

ELASTOSIL[®] LR 6320 F



Liquid Silicone Rubber (LSR)

Solvent free, free flowing, addition curing silicone rubber for soft and elastic textile coatings

Properties

- Low viscosity material for textile coating applications
- High additive tolerance for complicated adhesion problems
- Very soft and elastic film in combination with CROSSLINKER SX (hardness Shore A about 20)
- Soft film in combination with CROSSLINKER W or CROSSLINKER 525 (hardness Shore A about 35)
- Variable hardness in combination with ELASTOSIL[®] LR 6360 F.

Technical data

Properties Uncured

Property	Condition	Value	Method
Viscosity, dynamic (1 s ⁻¹)	-	28000 mPa·s	DIN EN ISO 3219
Viscosity, dynamic (10 s ⁻¹)	-	23000 mPa·s	DIN EN ISO 3219

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

Properties Cured

Cure conditions: mixture 100 parts LR 6320 F + 10 parts CROSSLINKER SX, 5 min, 165 °C.

Property	Condition	Value	Method
Appearance	-	transparent	-
Tear strength	-	4.3 N/mm	ASTM D 624 B
Hardness Shore A	-	20	DIN ISO 48-4
Density	-	1.07 g/cm ³	DIN EN ISO 1183-1 A
Tensile strength	-	2.4 N/mm ²	ISO 37 type 1
Elongation at break	-	450 %	ISO 37 type 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

- Anti-Slip Coating
- Architectural Textiles
- Industrial Textiles
- Lifestyle Textiles
- Textiles for Protective Clothing

Application details

ELASTOSIL® LR 6320 F is a multi-purpose liquid silicone rubber with low viscosity to produce soft and flexible textile coatings. Due to the high additive tolerance the viscosity of mixtures with adhesion promoters will increase only moderately. Therefore ELASTOSIL® LR 6320 F is especially suited for textile coatings with demanding adhesion requirements.

The hardness and elasticity of the coating can be varied by combination with ELASTOSIL® LR 6320 F. For details please contact your technical manager at WACKER.

The components of ELASTOSIL® LR 6320 F are in compliance with the positive lists of the Recommendation XV. Silicones of the BfR and FDA 21 CFR §175.300 and 177.2600. However, for compliance of the finished article with the before mentioned regulations the product has to be appropriately cured and given limitations on extractable and volatile substances have to be met.

Processing

ELASTOSIL® LR 6320 F is processed by thorough incorporation of a crosslinker.

Recommended ratio is 100 parts of ELASTOSIL® LR 6320 F plus

- 10 parts of CROSSLINKER SX (giving a shore hardness of about 20 ShA) or
- 3 parts of CROSSLINKER 525 or 1 part of CROSSLINKER W (giving a shore hardness of about 35 ShA)

Pot life at 23°C: 3 days

Recommended curing conditions: 3 min at 150°C or 1 min at 180°C

Adhesion of ELASTOSIL® LR 6320 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 200 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® LR 6320 F



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

Wacker Chemie AG, Hanns-Seidel-Platz 4, 81737 Munich, Germany
info@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.