

WACKER[®] FINISH CT 51 L

Silicone Rubber Dispersions

solvent-based silicone rubber solution for fine coatings on textile substrates

Properties

- Fine coatings down to < 5 g/m² possible
- High water columns
- Low air permeability
- Excellent layer to layer adhesion with multiple coating layers

Technical data

General Characteristics

Property	Condition	Value	Method
Viscosity, dynamic ⁽¹⁾	23 °C	15000 mPa·s	Brookfield
Density	-	0.9 g/cm ³	ISO 2811
Supply form	-	30% in toluene	-

¹2.5 rpm

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

- Industrial Textiles
- Lifestyle Textiles
- Textiles for Protective Clothing

Application details

WACKER® FINISH CT 51 L is ideally suited for the production of flexible, rubresistant and waterproof coatings on all kinds of textile fabrics.

Even on lightweight textiles, high waterproofness can be achieved with very low addon weigths. Treated fabrics remain lightweight and flexible, and can therefore be used for tents, awnings, clothing and other camping and sports articles. The coatings show good resistance to abrasion, weathering and dry-cleanig.

WACKER FINISH CT 51 L can also be used in diluted form to impregnate textiles. Impregnated textiles show high air permeability, stay elastic and are resistant to pilling and creasing and can be machine washed.

Processing

WACKER® FINISH CT 51 L is a 30% solution of silicone rubber in toluene. It can be used for fine coatings in undiluted form and for impregnation in diluted form. It is processed by mixing with additives to form a condensation curing or addition curing formulation.

Fine coatings in undiluted solution:

- Guideline formulation for condensation curing mixture:

100 pbw WACKER® FINISH CT 51 L
1 pbw Crosslinker V 80
1 pbw Glacial acetic acid
1 pbw Catalyst C 80

All components are mixed in one after the other. Pot life is stabilized when the mixture is left for about 10 minutes after incorporation of CROSSLINKER V 80 and will be around 8 hours.

Recommended curing conditions: 30 seconds to 2 minutes at 120 - 150 ° C.

- Guideline formulation for addition curing mixture:

100 pbw WACKER® FINISH CT 51 L
1 pbw INHIBITOR PT 88
1 pbw CATALYST C 05

Recommended curing conditions: 2 minutes at 160-180°C

By dilution of WACKER® FINISH CT 51 L with toluene (or other suitable solvents), the viscosity will be reduced and penetration into the fabric will increase until the point where no continuous film is formed on the surface. Detailed test runs are recommended to find the right balance of concentration, absorbency, coat weight and integrated degree of waterproofness.

Impregnation of textiles:

WACKER® FINISH CT 51 L should be diluted even further if the air permeability of the textile is to be retained after impregnation.

- Guideline formulation for impregnation:

20.0 pbw WACKER® FINISH CT 51 L
79.4 pbw toluene
0.2 pbw Glacial acetic acid
0.2 pbw CATALYST C 80

Textile can be impregnated by dipping and centrifuging, padding or spraying.

Recommended curing conditions: 30 seconds to 2 minutes at 120 - 150 ° C.

Packaging and storage

Packaging

This product is available in 40 kg pails and 170 kg drums.

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 WACKER® FINISH CT 51 L



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.