

WACKER® FINISH WR 210

Functional Silicone Fluids

WACKER® FINISH WR 210 is a reactive modified aminofunctional polydimethylsiloxane for use in non-yellowing and moisture neutral textile finishing.

Properties

WACKER® FINISH WR 210 is particularly suitable as active substance in softener formulations for the impregnation of fibers and textiles. WACKER® FINISH WR 210 imparts a soft, drapable, and elastic touch to woven and knitted fabrics. WACKER® FINISH WR 210 imparts excellent slickness and resilience to the fibre. Furthermore textiles treated with WACKER® FINISH WR 210 improve moisture management. Additionally wash-and-wear properties and the crease recovery angle, sewability and tear strength are increased and abrasion loss is reduced. The effects are fast to washing and dry cleaning.

Technical data

General Characteristics

Property	Condition	Value	Method
Amine number	-	approx. 0.19 ml 1 N HCl/g	-
Viscosity, dynamic	25 °C	1000 - 10000 mPa·s	DIN 53019
Appearance	-	clear, colorless to yellowish liquid	-

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

- Textile Finishing
- Softeners & Hydrophilic Softeners
- Textiles & Leather
- Textile & Leather

Application details

WACKER® FINISH WR 210 is suitable for the formulation of micro emulsions and macro emulsions. WACKER® FINISH WR 210 can be utilized as the active substance in softener emulsions or in combination with other components, e.g. paraffin waxes, organic softeners, etc. Compatibility of the components has to be checked in each individual case. When applied under normal conditions as part of a softener formulation, WACKER® FINISH WR 210 has no effect on the whiteness. In fact, it has no perceptible influence on the color or color fastness of textiles and fibers in general.

Processing:

WACKER® FINISH WR 210 can be applied neat, from solution, or emulsion. Suitable solvents are aliphatic and aromatic hydrocarbons, chlorinated hydrocarbons, esters, higher alcohols, and ketones.

Most textile processes are water based. Hence WACKER® FINISH WR 210 is mainly applied from emulsion. Emulsions prepared of WACKER® FINISH WR 210 are diluted to the optimum concentration for the specific fabric. Application can be done either by padding or exhaustion method.

Typical formulation

7.0 parts i-tridecyl-O-(EO)5-H (HLB 11)
5.0 parts i-tridecyl-O-(EO)8-H (HLB 13)
3.0 parts polyethylene glycol 400 (PEG 400)
12.0 parts demineralized water
20.0 parts WACKER® FINISH WR 210
52.9 parts demineralized water
0.1 parts preservative

For emulsion manufacturing slow shear mixers are sufficient (e.g. blade, anchor, propeller, etc.).

Add the emulsifiers to the demineralized water and thoroughly homogenize. Slowly add WACKER® FINISH WR 210 and stir until the product is homogeneous. Finally dilute with demin. water, add the preservative and filter the emulsion through a fine Perlon fabric.

Packaging and storage

Packaging

WACKER® FINISH WR 210 is available in 190 kg drum as well as 950 kg IBC.

Storage

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 WR 210



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

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