

WACKER® FINISH WS 60 E

Silicone Fluid Emulsions, functional

WACKER® FINISH WS 60 E is a special macro emulsion of a hydrogen siloxane, which produces optimum water-repellent effects on textiles of all kinds of fibrous material in combination with a tin or zirconium containing catalyst.

Properties

WACKER® FINISH WS 60 E imparts water repellency and provides a soft supple feel to textiles while retaining their full breathability (permeability to water vapour).

Furthermore, the wet staining properties are reduced. The finishing effects are largely unaffected by washing and dry cleaning.

Technical data

General Characteristics

Property	Condition	Value	Method
pH	-	approx. 3.5	Indicator strips
Solid content	-	45 %	Microwave oven
Appearance	-	milky-white liquid	-
Ionogenicity	-	nonionic	-

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.

Application details

Processing:

An essential prerequisite for optimum water-repellent effect is thorough precleaning of the material and the removal of all interfering wetting agents. WACKER® FINISH WS 60 E is applied by padding or spraying.

The baths are prepared by stirring first the silicone emulsion and then the catalyst into water acidified with acetic acid (pH 4-5) if required.

The stability of the bath is improved by using demineralized water.

The baths can be used for about 4 to 12 hours, depending on the hardness of the water, the degree of contamination by entrained fibre residues, the use of additional agents and bath concentration.

Compatibility with other additives is generally good, but bath stability and the water-repellent effect should be checked in preliminary tests.

In case anticrease agents are used, it is recommended to use zinc chloride or zinc nitrate as catalyst instead of magnesium chloride in order to avoid a reduction of the water-repellent effect.

In order to obtain the optimum water-repellent effect, drying at the usual temperatures for the individual types of fibre should be followed by short post-heating at 120 °C to 160 °C (for 10 - 20 minutes). The water-repellent effects, however, are also obtained after storage for several days at room temperature.

Guide formulation

20 - 40 g/l WACKER® FINISH WS 60 E

2 - 4 g/l commercially available zirconium catalyst (e.g. WACKER® REPELLENT 50 CATALYST Z)

Packaging and storage

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>.

Precaution: WACKER® FINISH WS 60 E contains hydrogen siloxane and produces slight quantities of hydrogen. The instructions given in the safety data sheet shall therefore always be followed.

QR Code WACKER® FINISH WS 60 E



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

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