

POWERSOFT® AE 66



Silicone Fluid Emulsions, functional

POWERSOFT® AE 66 is a nonionic micro emulsion concentrate of an aminomodified silicone fluid.

Properties

POWERSOFT® AE 66 is particularly suitable for the impregnation of fibers and textiles. POWERSOFT® AE 66 imparts a very soft, smooth and elastic touch, additionally to woven and knitted fabrics. POWERSOFT® AE 66 improves the wash-and-wear properties and the crease recovery angle and tear strength and reduces abrasion loss. The effects are fast to washing and dry cleaning.

POWERSOFT® AE 66 has very little effect on the degree of whiteness when usual application conditions are adhered to. Generally, no adverse effect on the shade or color fastness properties of coloured goods is observed.

Specific features

- Concentrate
- Dilutable with water, and free of solvents
- Easy to use
- Excellent durability
- Low volatility

Technical data

General Characteristics

Property	Condition	Value	Method
pH-Value	-	approx. 5	-
Appearance	-	colorless, opaque	-
Ionogenicity	-	nonionic	-
Solid content	-	approx. 61 %	Microwave oven

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

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

Application details

Processing:

POWERSOFT® AE 66 gives permanent effects even without the addition of a catalyst. Specific curing conditions need not be adhered to if no resins are used.

POWERSOFT® AE 66 can be applied either by padding or by the exhaust method but, as with all products containing silicone, the finishing liquors should not be subjected to high shear, as this might cause instability. 5 - 30 g/l POWERSOFT® AE 66 are recommended for the pad method. For the exhaust method 1 - 3 %, relative to the weight of goods are adequate and the treatment should be carried out at 40 - 50 °C for 15 - 20 minutes. The pH of the liquor should not exceed pH 5. It may need to be adjusted with acetic acid. POWERSOFT® AE 66 can be applied either alone or together with resins and other finishing agents. If POWERSOFT® AE 66 is used together with crosslinking agents and other additives, it should be added, in diluted form, after all the other products. (This recommendation applies generally to the processing of all polysiloxanes). Higher crease recovery angles and lower abrasion values can be obtained in resin finishes by using POWERSOFT® AE 66. A wide range of touches can be obtained by combining POWERSOFT® AE 66 with conventional softening agents and other additives such as fillers based on polyacrylate.

Typical recipes:

Woven and knitted materials of synthetic fibres:

0.5 ml/l acetic acid 60 %
10-30 g/l POWERSOFT® AE 66
pad, liquor pick-up about 50 %, dry at 120-150 °C

Single jersey or interlock cotton fabrics (exhaust method):

0.5 ml/l acetic acid 60 %
2-4 g/l POWERSOFT® AE 66
10-30 minutes at 30-40 °C, without rinsing, hydroextract, dry at 100-150 °C

Packaging and storage

Packaging

- 0,5 kg bottle
- 50 kg drum
- 200 kg drum
- 950 kg IBC

Storage

The "Best use before end" date of each batch is shown on the product label.

Emulsions showing signs of creaming should be agitated before use to assure uniform consistency.

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 POWERSOFT® AE 66



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

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