

Technical - Information

AVCO-PRINTOSIL EM

SILICONE SOFTENER FOR PIGMENT PRINTING AND DYEING

AVCO-PRINTOSIL EM is a silicon softener and plasticizer used for softening binder films in textile pigment printing and dyeing processes. The product does not contain any volatile additives and is not air-polluting at all.

SPECIFICATIONS:

Appearance	Milky white emulsion.
Chemical nature	Silicone polymer emulsified in water.
Ionicity	Nonionic.
Solubility	Can be mixed with water at any ratio.
pH (10% sol.)	7 ± 1
Compatibility	Stable to all chemicals normally used in textile pigment printing and dyeing.
Storage	Sensitive to frost. When properly stored, shelf life is 12 months at least.

PROPERTIES & USES:

1. Excellent softening effect on all types of binders.
2. AVCO-PRINTOSIL EM is chemically inert, and can be combined with all types of chemicals used in pigment printing and dyeing.
3. AVCO-PRINTOSIL EM increases the dry rubbing fastness of pigment prints and pigment dyed fabrics, without impairing the wet fastness, if used in the proper amounts.
4. AVCO-PRINTOSIL EM improves very much the smoothness and the flexibility of the binder films, even when incorporating high amounts of inorganic pigments such as Titanium-Oxides, silicates and carbonates.
5. AVCO-PRINTOSIL EM increases the brightness of pigment prints and pigment dyed fabrics.
6. AVCO-PRINTOSIL EM is suitable as a nonionic softener for all types of textiles. It improves hand, smoothness and sew-ability of treated fabrics.

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APPLICATION:

I. Printing

AVCO-PRINTOSIL EM is added to the printing paste after incorporation of the thickener. Use an high speed homogenizer type mixer.

Usage:

1. For regular pigment printing, to improve softening and dry rubbing fastness use 5 - 15 gr/Kg.
2. For improving hand of fashion knits use 10 - 30 gr/Kg.
3. For improving hand of prints made with AVCO-LOR WHITES and AVCO-LACK BR use 10 - 40 gr/Kg.
4. Excess quantities of AVCO-PRINTOSIL EM can improve the hand of printed fabric even more, but wet fastness should be evaluated.

II. Pigment dyeing

To the pigment dyeing recipe add 10 - 30 g/l of AVCO-PRINTOSIL EM.

III. Finishing

To improve sewability and lubricity add 10 - 40 g/l of AVCO-PRINTOSIL EM to the finishing bath.