



TECHNICAL BULLETIN

TAYCHEM SILSOFT CF-10

Elastomeric Silicone Softener Micro Emulsion

Description:

TayChem Silsoft CF-10 is a 28% active, self-crosslinking, amino elastomeric micro emulsion that imparts an excellent soft, wet hand on cotton and poly/cotton substrates. It is medium-yellowing and imparts elastomeric properties to fabrics and knit ware. Stretch recovery is greatly improved with this product.

Applications:

TayChem Silsoft CF-10 is particularly suitable as a softener for the impregnation of fibers and textiles. It imparts a very soft, smooth, and bouncy hand to woven and knitted fabrics. This product improves wash-and-wear properties, crease recovery angle, sewability, and tear strength and reduces abrasion loss. The effects are fast to washing and dry cleaning.

TayChem Silsoft CF-10 has little effect on the degree of white when usual application conditions are adhered to. As a rule, no adverse effect on the shade or color fastness properties of colored goods is observed.

Processing:

TayChem Silsoft CF-10 gives permanent effects without addition of a catalyst. Provided no resins are used, specific curing conditions need not be adhered to.

TayChem Silsoft CF-10 can be applied by padding, but not by exhaust method. As with all products containing silicone, the finishing liquors should not be subjected to high shear as this might cause instability.

50 to 300 g/l of TayChem Silsoft CF-10 are recommended for the pad method. The pH of the liquor should not exceed a pH of 5. It may need to be adjusted with acetic acid.

TayChem Silsoft CF-10 can be applied both alone or together with resins and other finishing agents. If this product is used together with crosslinking agents and other additives, it should be added, in diluted form, after all the other products. (This applies generally to the processing of all polysiloxanes.)

Higher crease recovery angles and lower abrasion values can be obtained in resin finishing by using TayChem Silsoft CF-10.

Typical Properties:

Property	Characteristic
Appearance	Slightly Hazy Emulsion With Blue Cast
Solids Content [%]; Microwave Oven	Ca. 28
pH Value	Ca. 5
Ionic Character	Nonionic

Note: These figures are intended as a guide and should not be used in preparing specifications.

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Woven And Knitted Materials From Synthetic Fibers
50-300 g/l TayChem Silsoft CF-10 Pad
Liquor Pickup About 75%
Dry At 120°C To 150°C

Storage Stability:

TayChem Silsoft CF-10 has a shelf life of at least six {6} months if stored in originally-sealed containers at 25°C or 70°F.

Emulsions showing signs of skin formation should be filtered before use to assure uniform consistency.

If the material is kept beyond the recommended shelf life, it is not necessarily unusable, but quality control should be performed on the properties relevant to the application.

Safety Instructions:

Comprehensive instructions are given in the corresponding Material Safety Data Sheet. This information is available upon request from TayChem Industries, Ltd.

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