



TECHNICAL BULLETIN

TAYCHEM FF

Silicone Softener Emulsion For The Fiber Industry

Characteristics:

TayChem FF is a nonionic macro-emulsion of a functional polysiloxane. It is a one-component finish that imparts softness and resiliency to fiberfill and shape-stabilizing characteristics to textile fabrics. TayChem FF possesses excellent film-forming properties upon curing and crosslinking.

Applications:

*	Fiberfill finish to add softness, slickness, and resilience to quilts, pillows, and similar articles.
*	Shape-stabilizing finish for knitted and woven products made of synthetic, glass, and other fibers as well as felts and nonwovens.

Processing:

TayChem FF could be applied to the fiberfill by dipping and padding or spraying.

The practical concentration of application depends on the impregnating method (spraying or dipping and squeezing).

An add-on level of 0.3% to 0.8% by weight of active ingredients is recommended.

Drying and crosslinking is obtained by heating between 120°C and 170°C for ten minutes. Residence time as low as five minutes is possible with TayChem FF.

By adding a crosslinker (i.e., GENIOSIL GF-95), and by varying the addition amount of this crosslinker, the properties of the finish (like resiliency, permanency, friction coefficient) can be individually tuned.

The addition of crosslinker should occur slowly and under permanent mixing in order to avoid agglomerations. For such an impregnating bath, water should first be filled in, then crosslinker, and finally TayChem FF.

Product Data:

Appearance	Milky White Liquid
Solid Content (%)	66
Active Substance Content (%)	60
Active Substance	Functional Polysiloxane
Ionic Character	Nonionic
pH	7.0 To 8.0
These figures are only intended as a guide and should not be used in preparing specifications.	

Storage:

TayChem FF has a shelf life of at least six (6) months when stored between 10°C and 25°C in the tightly-closed, original container. The "best use before end date" of each batch appears on the product label.



Storage: {Continued}

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 Instructions:

Detailed safety information is contained in the corresponding Material Safety Data Sheet which is available upon request from TayChem Industries, Ltd.

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