

Fluorolink[®] S10

Perfluoropolyether

Fluorolink[®] S10 is a triethoxysilane terminated, bifunctional PFPE designed to be used as a surface treatment primarily for glass, siliceous surfaces, metals, and in general any substrate having –OH groups available on the surface.

A thin layer of Fluorolink[®] S10 is able to impart outstanding water and oil repellence, friction reduction and antisticking properties to the treated surface.

Additional benefits of Fluorolink[®] S10 include low refractive index, good resistance to weathering, solvents and abrasion.

Properties	Typical Value	Units	Test Method
Functional groups	Triethoxysilane		
Kinematic viscosity at 20 °C	173	cSt	
Specific gravity at 20 °C	1.51	g/ml	
Solubility in H ₂ O at 20 °C	Insoluble		
Solubility in Isopropyl alcohol at 20 °C	1–10	% w/w	
Appearance	Pale yellow liquid		

Formulation

Fluorolink[®] S10 has to be applied from a solvent-based solution containing water that participates to the chemical reactions involved in the crosslinking.

It is recommended to formulate the Fluorolink® S10 as follows:

- 0.1 % w/w of Fluorolink® S10
- 0.4 % w/w of H₂O (4:1 ratio H₂O/Fluorolink[®] S10)
- 0.1 % w/w of acetic acid or HCI 10 %
- 99.4 % w/w of Isopropyl alcohol

Shelf-life of this formulation = 2-3 days

How to use

Dilute Fluorolink[®] S10 in Isopropyl alcohol to the concentration of use (0.1-0.2% w/w is recommended), then add the right amount of water and finally the acid catalyst. The solution could turn slightly cloudy, but this will not affect the final performance.

Wait 30 min. before applying in order to allow the hydrolysis of the triethoxysilane end groups to reach completion.

The formulation can be applied by dipping, spray, roll or spin coating; after the application cure at T = 100 °C for 15 min + T = 150 °C for 15 min.

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