

Fluorolink®



SOLVAY

asking more from chemistry®

Fluorolink® PFPE

Surface Coating Modifiers

**SPECIALTY
POLYMERS**

Fluorolink® PFPE Surface Coating Modifiers

Fluorolink® is a product line based on bifunctional perfluoropolyethers (PFPE) developed by Solvay Specialty Polymers and specifically designed for use as surface modifiers for coatings.

Fluorolink® PFPE combines the typical unique properties of fluorinated materials with the high versatility of a wide range of reactive and non-reactive end-groups (alcohol, acrylates, long-chain hydrogenated, ester, etc.). Because of this adaptable chemistry Fluorolink® PFPE is suitable as a reactive additive for polyurethane, polyester, and epoxy-based coatings, which require:

- Low coefficient of friction
- Anti-fouling/Anti-graffiti properties
- Better chemical resistance
- Water/oil and stain repellency
- Improved surface smoothness and gloss
- Soft touch

All these benefits can be obtained without changing the bulk properties of the host material such as mechanical properties, gloss, etc. A concentration of Fluorolink® PFPE of about 0.5–5% w/w is sufficient to enhance the final properties of the coating formulation.



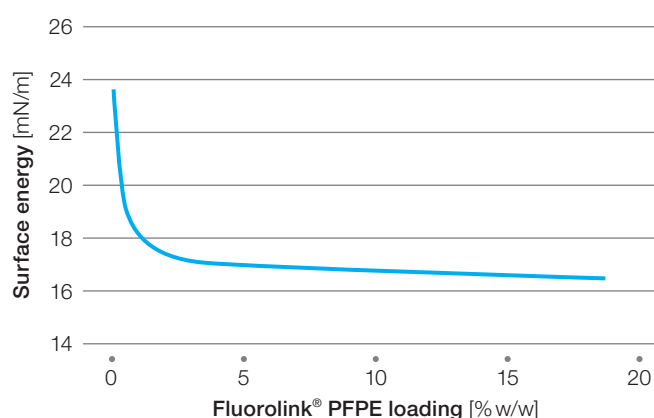
Fluorolink® PFPE as surface coating modifier

Functional End Group	Suggested Materials
PFPE-ethoxylated dialcohol	polyurethanes, polyesters, epoxies
PFPE-urethane acrylate	UV-curable coatings
PFPE-urethane methacrylate	UV-curable coatings
PFPE-based waterborne PUD	additive for waterborne paints

Fluorolink® PFPE as surface treatment

Functional End Group	Substrates
PFPE-phosphate	ceramics, metals

Example of polyurethane modification



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