

Fluorolink® P56

Perfluoropolyether

Fluorolink® P56 is a waterborne dispersion of an anionic polyurethane based on a PFPE backbone. It has been developed in particular to impart water and oil repellency and stain release properties to the treated surfaces.

The surfaces treated with Fluorolink® P56 show exceptional water and oil repellency and easy cleanability versus common staining agents. The staining agents can be easily removed with water or common cleaning

products. The protective treatment does not modify the aesthetic characteristics of the treated surfaces.

Fluorolink® P56 can be used as such or in formulation; it can be further diluted with water to the proper concentration of use with the recommendation to shake the dispersion before use in order to reduce the possibility of partial settling.

Property	Typical Value	Unit	Test Method
PFPE dry content	25	% w/w	
Solvent content	< 2 %	% w/w	
Density at 20°C	1.1	g/cm ³	
pH at 20°C	7–8		

How to use

Fluorolink® P56 can be applied by dipping, roll or spray.

Fluorolink® P56 can be easily additivated with common rheological additives.

In order to achieve the best water and oil repellency, Fluorolink® P56 can be cured with conventional curing agents that can be easily blended with Fluorolink® P56 before use.

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Fluorolink® P56 can be cured both at low and high temperature; examples of typical formulations are as follows:

Typical formulation for low temperature curing

Fluorolink® P56 (25% solids)	1,000g
Dynasilan® Glymo*	25.5 g
Imicure® Emi-24** (5 % wt water solution)	2.5 g

 ³⁻Glycidyloxypropyltrimethoxysilane (Crosslinker from Evonik Industries)

Preparation

Add the crosslinker to Fluorolink® P56 and stir for a few minutes. Add the catalyst to the solution and stir to obtain a homogeneous solution.

Dry Time [24 °C, 50 % RH]

Film thickness	25-35 µm
Tack free time	2.0-2.5 hours

Curing Condition

Room temperature	> 4 days	
Oven	80°C for 30 minutes	

Typical formulation for high temperature curing

Fluorolink® P56 (25 % solids)	1,000 g
Cymel® 303*	12.5 g
p-Toluene sulfonic acid triethylammonium salt** (5 % wt water solution)	2.5 g

- * Melamine (Crosslinker from Cytec Industries): pre-dilute with 1:1 with IPA before adding
- ** reaction catalyst

Preparation

Add the crosslinker and the catalyst to Fluorolink® P56, then stir for a few minutes to obtain a homogeneous solution.

Dry Time [24 °C, 50 % RH]

Film thickness	25-35 µm
Tack free time	2.0-2.5 hours

Curing Condition

Oven	180°C for 10 minutes

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^{**} Catalyst from Air Products and Chemicals