DuPont[™] Capstone[®] Fluoropolymer FS-81

TECHNICAL INFORMATION

Description

FS-81 is a fluorinated polymeric coating additive. It is a water dispersion that can improve cleanability of oily dirt and provide oil repellency to flat architectural paints and waterborne coatings. FS-81 does not interfere with recoat adhesion and does not affect water repellency. FS-81 complies with the ecological criteria for the potential award of the Community eco-label to indoor and outdoor paints set in the Commission Decisions C(2008)4452 and C(2008)4453, as active substances are not listed in the OECD "Preliminary lists of PFOS, PFAS, PFOA, PFCA, related compounds and chemicals that may degrade to PFCA (as revised in 2007) referred to in the decisions.

Applications

- Improves oil repellency of low sheen interior latex wall paints
- Improves washability of oil based stains for low sheen latex paints, such as dirty hand prints often found near light switches and door frames
- Provides good dirt pickup resistance (DPR) for exterior latex paints
- Wetting agent in water based and polar solvent based coatings and printing inks
- To achieve maximum results, it is recommended that the coating be reformulated to minimize oil attracting additives and excess surfactants. The combination of anionic fluorosurfactants and FS-81 provides optimal performance for dirt pickup resistance (DPR)
- Use rates are highly dependent upon the specific coating system, application, and desired outcome. The table below provides guidance based upon DuPont knowledge gained from evaluation of this material

Typical Properties

Appearance

Chemical Class

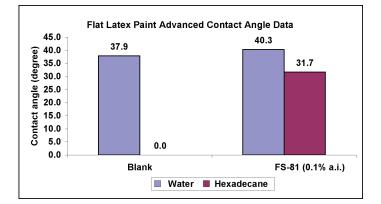
Off white to yellow liquid Fluoropolymer

	1	Application	
	Application		
	Interior Stain Washability	Dirt Pickup Resistance (DPR)	Wetting Agent
Use Rate (Product Weight)	0.3-0.5%	0.3-1%	0.2 %
Use rate (active ingredient)	0.1-0.2%	0.1-0.3%	0.07%
Density	1.08 g/ml		

Flash Point	> 200 °F (93 °C)	
Composition	33% active ingredient, 67% water	
Foam	FS-81 has very low foam and does not cause additional foam in coating systems	
Odor	Faint methyl isobutyl ketone odor	
Solubility	Dispersible directly in latex paint. The product can be diluted with water and has limited solubility in polar solvents.	
Shelf Life	Three years after production under normal storage conditions	

Performance

A positive advancing oil contact angle is a direct indicator of oil repellency.





Personal Safety, First Aid, Storage and Handling

- See the material Safety Data Sheet (SDS) for product specification information.
- Viscosity of the product may increase with cold storage and or over time, which will not affect the performance of the product.
- The product should be protected from freezing.
- Mix well before using.

DuPont[™] Capstone[®] Repellents and Surfactants:

- Deliver more sustainable solutions with maximum performance
- Are short-chain molecules that cannot break down to PFOA in the environment
- Are supported by an in-depth foundation of data
- Are in compliance with REACH requirements
- Listing on TSCA inventory
- Meet the goals of the U.S. Environmental Protection Agency 2010/15 PFOA Stewardship Program

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