

# Capstone™ FS-81

## Coating Additive

## Technical Information

### Description

Capstone™ FS-81 is a waterborne, partially fluorinated coating additive. It is a self-dispersed additive for low-sheen easy clean latex paints that can improve cleanability of oily, dirt-based stains, such as dirty handprints, and other household stains. It can provide oil repellency to flat architectural paints and waterborne coatings. There is also some improved performance with dirt pickup resistance (DPR). The properties of Capstone™ FS-81 can help simplify formulations and improve performance. FS-81 does not interfere with re-coat adhesion and does not affect water repellency.

### 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 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 DPR.
- Use rates are highly dependent upon the specific coating system, application, and desired outcome. The table below provides guidance based upon Chemours knowledge gained from evaluation of this material

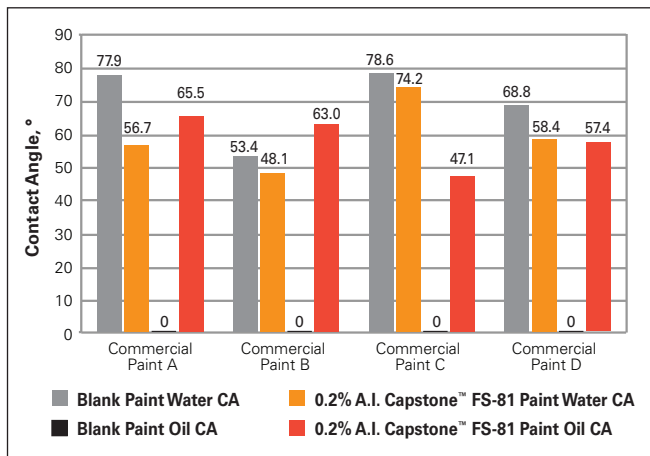
### Typical Properties

Appearance	Colorless to yellow liquid		
Chemical Class	Partially fluorinated copolymer		
	Application		
	Interior Stain Washability	Dirt Pickup Resistance (DPR)	Wetting Agent
Use Rate (active ingredient)	0.1–0.2%	0.1–0.3%	0.07–0.1%
Specific Gravity	1.1		
Flash Point	>200 °F (93 °C)		
Composition	33% active ingredient		
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		

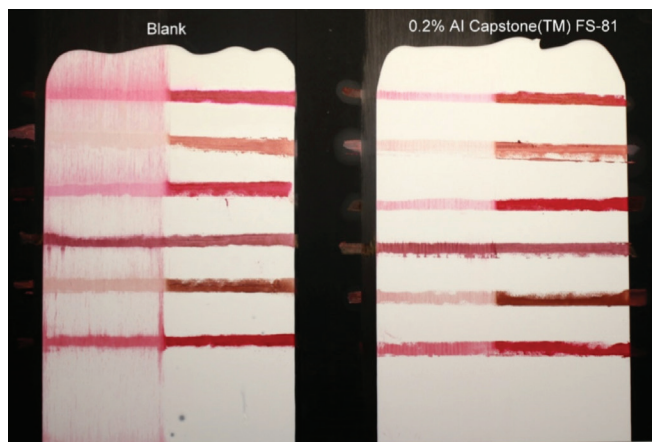
### Performance

A positive advancing oil contact angle is a direct indicator of oil repellency (see **Figure 1**).

**Figure 1. Static Water and Oil Contact Angles in Low-Sheen Commercial Latex Paint**



**Figure 2. Example of Stain Repellency with Lipstick, using a 60 min stain and washed with 1% Dishwashing Soap for 50 scrubs**



**First Aid, Storage, and Handling**

See the Safety Data Sheet (SDS) for specific product information before using this product. Follow all applicable directions. Mix well before using.

**Capstone™ Repellents and Surfactants**

- Deliver maximum performance
- Regulatory and stewardship information is available upon request
- Are listed on TSCA inventory

**Package Sizes**

Tote-2,200 lb (998.8 kg), Drum-440 lb (199.76 kg), Pail-40 lb (18.16 kg), PL Bottle-8 lb (3.632 kg)

For questions regarding technical data, commercial supply, and sampling:

**Chemours Advanced Performance Materials**

**Technical Inquiries**

Asia Pacific +86.400.671.6789  
 Europe +41.22.719.1537  
 Latin America +55.08.0011.0728  
 North America +1.866.828.7009

**Regional Technical Customer Service Center, Americas**

The Chemours Company  
 Chemours Discovery Hub  
 201 Discovery Boulevard  
 Newark, DE 19713 USA  
 +1.866.828.7009

For more information, visit [www.chemours.com/capstone](http://www.chemours.com/capstone)

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