



ADVANCED POLYMER, INC.

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APFS-75S

APFS-75S is a short-chain anionic water-based fluorosurfactant dispersion that gives low aqueous surface tension only achievable with fluorosurfactants. APFS-75S offers excellent anti-block, wetting and leveling properties. APFS-75S is VOC-free and APEO-free that can be used in wide variety of applications including architectural coatings, industrial finishes, and wood coatings.

CHARACTERISTICS

- Short-chain fluorochemical technology
- Anti-block additive for low VOC paints, especially in softer films with reduced co-solvent.
- Provides oil repellency and dirt pick-up resistance.
- Works in a wide variety of latex systems
- VOC free.
- Increases substrate wetting. Excellent flow and leveling properties.
- Eliminates many surface defects.
- Reduces foam.
- Coatings can be spray applied at recommended levels

APPLICATIONS

- Latex Paints and Coatings
- Floor Finishes and Urethane Based Coatings
- Wood Coatings

TYPICAL PROPERTIES

Appearance:	Amber emulsion
Specific Gravity (@ 25°C):	1.1
pH (as is):	8-10
Boiling Point:	~100°C
Water Solubility:	Dispersible
Actives	20%

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PERFORMANCE

Formulation:

Recommended use rates of APFS-75S as additive to low VOC architectural coatings vary from 0.02–0.1% active ingredient in latex paints. APFS-75S is susceptible to some precipitation in hard water, so deionized or softened water is recommended. Dilution into polar organics (IPA, glycol ethers, etc.) is also readily achieved.

Method of Application:

To demonstrate efficacy of APFS-75S as an anti-block in paints, a standard architectural semi-gloss latex paint was selected from a major paint manufacturer. Blocking resistance of the paint as supplied, and with addition of APFS-75S in the concentrations noted below was measured according to ASTM D 4946. The result of this testing are shown in the table below: (The higher the Block Resistance Rating the better the performance).

Sample	Cure Time	Cure Condition (Temp and Humidity)	Face To Face Time	% Active	Blocking Resistance Rating (Average)
Control	7 days	70°F at 50% RH	30 minutes	None	1
APFS-75S	7 days	70°F at 50% RH	30 minutes	0.05	6
APFS-75S	7 days	70°F at 50% RH	30 minutes	0.10	8

HANDLING & STORAGE

Do not freeze. Refer to MSDS for proper handling and storage.

PACKAGING

APFS-75S is available in 4 oz samples and 441-lb drums.

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