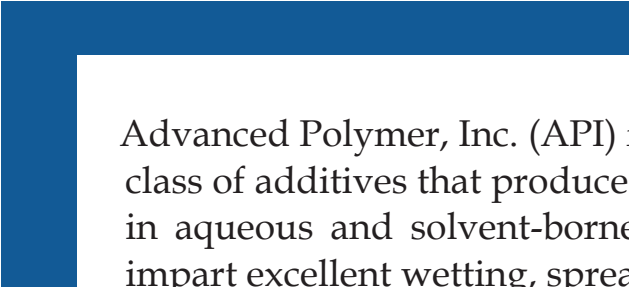


FLUOROSURFACTANTS



Advanced Polymer, Inc. (API) fluorosurfactants are a unique class of additives that produce low surface tension properties in aqueous and solvent-borne systems. Fluorosurfactants impart excellent wetting, spreading and leveling properties to a variety of systems including architectural paints and finishes, coatings for plastics, high solids coatings, inks, waxes and polishes.



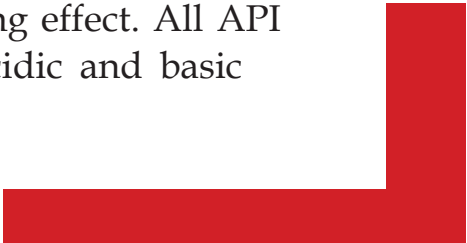
Superior Performance at Low Concentration

API fluorosurfactants allow formulators to create coatings that will penetrate low surface energy substrates. Unlike hydrocarbon and silicone surfactants, fluorosurfactants both reduce surface defects such as craters and pinholes, and lower surface tension. API fluorosurfactants dramatically reduce surface tension at very low concentration (typically between 0.05% and 2.0% of total formulation). Low loading levels allow the formulator to reduce cost while improving performance.



Synergistic Effects Produce Superior Results

In some formulations, API fluorosurfactants can be combined with hydrocarbon and/or silicone surfactants. This can reduce the formulation cost while increasing the effectiveness of the coating. The combination of fluorosurfactant with other types may also reduce the overall loading level of the surfactants in the formulation, while maintaining or improving wetting effect. All API fluorosurfactants are stable in both acidic and basic solutions.



Fluorosurfactant	Description
APFS-14	Amphoteric fluorosurfactant primarily designed to reduce the surface tension of aqueous solutions to promote leveling and wetting. In some systems, APFS-14 will also function as a foam stabilizer.
APFS-16	Nonionic fluorosurfactant that will enhance leveling and wetting in solvent based systems. APFS-16 will also produce stable foam in low polarity hydrocarbon liquids such as kerosene and diesel fuel.
APFS-27-40	Water-borne, nonionic, fluorosurfactant that will impart excellent wetting and leveling properties. APFS-27-40 is very effective on hard to wet surfaces such as plastics, oily or waxy substrates, and fluoropolymer or silicone treated fabrics.
APFS-32	Waterborne, nonionic, fluorosurfactant that can be used to improve wetting and leveling on difficult to wet surfaces such as plastics, oily or waxy substrates, and silicone or fluoropolymer treated fabrics.
APFS-70S	VOC free, water-borne, nonionic, fluorinated surfactant based on short-chain fluoropolymer chemistry. APFS-70S has exceptional stability & provides outstanding wetting & leveling properties, even on difficult to wet surfaces. Considered to be non-PFOA contributing.
APFS-71S	VOC free, nonionic, waterborne, fluoropolymer that will impart excellent leveling and wetting properties to water-based systems at very low loading levels. APFS-71S is based on short chain fluoropolymer chemistry. Considered to be non-PFOA contributing.
APFS-73S	Nonionic fluorosurfactant designed to enhance leveling and wetting in solvent-based systems at very low loading levels. APFS-73S is based on short chain fluoropolymer chemistry and is, therefore, considered to be non-PFOA contributing.

Key Characteristics							
Product	pH	Specific Gravity	Ionic Nature	Solubility in Water	Active Content	Appearance	Uses
APFS-14	6.5	1.03	Amphoteric	High	27%	Clear to slightly amber liquid	Detergents, Anti-fogging Agent, Wetting Agent
APFS-16	-	0.83	Nonionic	Insoluble	22%	Light yellow, transparent solution	Produces stable foams in low polarity hydrocarbon liquids
APFS-27-40	7.5	1.06	Nonionic	Soluble	40%	Clear to slightly hazy amber liquid	Wetting/leveling agent for water-based paints, inks, coatings and polishes.
APFS-32	4 - 8	1.05	Nonionic	Partially soluble	25%	Amber to dark brown liquid with slight stratification	Wetting/leveling agent for water-based paints, inks, coatings and polishes.
APFS-70S	5 - 7	1.16	Nonionic	Soluble	50%	Amber liquid	Wetting/leveling agent for water-based paints, inks, coatings and polishes.
APFS-71S	6	1.06	Nonionic	Low	25%	Amber liquid	Wetting/leveling agent for water-based paints, inks, coatings and polishes.
APFS-73S	-	0.80	Nonionic	Insoluble	15%	Colorless translucent liquid	Solvent based paints, inks, coatings, lubricants, waxes and polishes.

Surface Tension at 77°F (dynes/cm) @ 0.01% in Water	
APFS-14	20
APFS-27-40	24
APFS-32	19
APFS-70S	20
APFS-71S	19



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