



FLUROSURFACTANTS FLUOROPOLYMERS

An extensive line of high-performance fluorosurfactants.

- Innovative short-chain chemistry
- Proven superior performance
- High purity
- Excellent fluorine efficiency
- Broad environmental capability
- Customized product and application formulation

Paints

Multi-functional Chemguard fluorosurfactants reduce surface tension, improving wetting, flow, and leveling on contaminated surfaces and low-energy substrates. Fluorosurfactants can reduce foam, improve open time, gloss, blocking and impart resistance to dirt pick-up at low concentration. The addition of Chemguard fluorosurfactants reduces orange-peel effect and cratering. In many instances, the use of fluorosurfactants reduces or even replaces multiple ingredients and achieves improved results. The low concentrations required reduce surfactant interferences with critical properties of paints

Wood Stains and Sealers

Chemguard fluorosurfactants are effective in wetting soiled or contaminated surfaces, including new wood with a difficult-to-penetrate surface due to improper curing or drying. The addition of fluorosurfactants can allow wood to be used without additional drying times or costs. Using Chemguard fluorosurfactants in stains can eliminate voids and surface defects caused by entrapped bubbles during mixing application. Formulation costs can be reduced due to improved pore penetration, which allows lower application rates and reduces waste.

Caulks

Chemguard fluorosurfactants improve UV stability, enhance anti-soiling, and improve the durability of caulks. The fluorosurfactants improve bond strength by increasing pore penetration, which increases the total surface area in contact with the caulk. Fluorosurfactants also increase open time in certain formulations, creating a wider application window without slowing curing. The addition of fluorosurfactants can also eliminate silicone bleeding. For non-aqueous formulations, select Chemguard S-554-100.

Adhesives

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Waxes

Chemguard fluorosurfactants effectively maximize wetting power to produce uniform film formation, improved gloss, and excellent recoat performance. Many fluorosurfactants are low foaming for smooth, void-free finishes and reduced orange-peel effect. Waxes formulated with Chemguard fluorosurfactants can give excellent results when applied to surfaces that are not perfectly cleaned. Available for both water-based and solvent-based systems.

Polishes

In polishes, Chemguard fluorosurfactants give uniform film formation, improved gloss, and excellent recoat performance by effectively maximizing wetting and leveling. The low-foaming characteristics of many surfactants produce smooth, void-free finishes with reduced orange-peel effect. Incorporating Chemguard fluorosurfactants allows polishes to be used on less-than-perfect wood or other porous surfaces and still give excellent results. Available for both water-based and solvent-based systems.

Cleaners

Incorporating Chemguard fluorosurfactants in cleaners reduces surface tension and promotes high penetration and wetting of contaminants, which in turn allows the ingredients added for emulsification and dissolution to work efficiently at reduced concentrations. For glass and hard-surfaces, the improved wetting power of Chemguard fluorosurfactants results in less residue, faster drying and no streaking or haze. S-559 can impart anti-fogging properties. For foam cleaners, S-111, S-103A, S-106A, and S-500 create very stable, high-quality foams, even at low concentrations.

Metal Plating

Chemguard fluorosurfactants assist in wetting contaminated surfaces and in penetrating difficult-to-wet tight spaces, which improves etching efficiency and reduces scale build-up. Fluorosurfactants are very stable in acid environments, even when heated, and many act as fume suppressants. By reducing drag-out and mist formation, Chemguard fluorosurfactants prolong bath quality while reducing contamination to the work environment and adjacent plating-solution tanks. S-151 is ideal for aggressive plating solutions including chrome plating.

Polymers

Chemguard fluorosurfactants improve particle wetting, aid in hydrocarbon emulsification, act as coupling agents, and serve as internal lubricants. Low foam generators, fluorosurfactants reduce surface tension and improve leveling to reduce voiding in 100% solids, polymer-based systems. In UV-curable systems, Chemguard fluorosurfactants can improve adhesion by improving pore penetration and leveling. Products are available for water-based and water-sensitive polymer-based systems.

Inks / Graphic Art

Chemguard fluorosurfactants dramatically reduce surface tension to improve wetting, flow, and leveling without creating "bleeding" issues. In addition, the low concentrations will not interfere with dye and pigment dispersion phases. Low-foam options are available for low-voiding potential. Because Chemguard fluorosurfactants tend to migrate to the surface of applied inks, they can improve anti-blocking characteristics, which reduces transfer when printed sheets are

