

# Masurf<sup>®</sup> FS-2000

## Fluoroaliphatic Polymer Fluorosurfactant

### Overview

MASURF FS-2000 is characterized as a 100% active nonionic fluoroaliphatic polymer fluorosurfactant. FS-2000 is a low-surface energy nonionic fluorosurfactant with the ability to eliminate surface defects in coatings caused by poor wetting of a low energy surface or contaminated substrate. With low typical use levels of 0.1-0.5%, MASURF FS-2000 functions at very low concentrations to contribute properties at very low cost.

As a coating additive **in Paints, Coatings and Other Organic Solvent Based Systems**, FS-2000 exhibits surface reduction performance in a range of liquid resin, water reducible, solvent based and high solids systems. Recommended for use in epoxy, urethane, polyester, UV curable and alkyd systems, MASURF FS-2000 is an excellent wetting, leveling and flow control agent on low energy surfaces such as plastic. When used to stabilize pigments and polymer resins in water-borne polymer systems, FS-2000 achieves and maintains a low surface tension throughout the drying/curing process for smoother, higher gloss coatings.

Based on proven fluorotelomer technology, FS-2000 is a high performance product for today's high performance coatings with near universal compatibility and effectiveness. With typical surface reduction to about 20 dynes/cm, compared with hydrocarbon surfactants at 30 dynes/cm and silicone surfactants at 25 dynes/cm, MASURF FS-2000 delivers performance only obtainable with telomer based fluorochemicals, and at lower concentrations.

Compare\* to Zonyl FSN-100, Fluorad FC-430, FC-4430, FC-4432.

### Typical Properties

Physical form .....	Amber viscous liquid
Actives content % .....	100 wt%
Viscosity @60°C.....	<100 cps
Flash point (TCC) .....	>100°C
VOC content (volatile-water) .....	0%
Storage .....	Store above 32°F and below 100°F

### Handling Information

Refer to the Material Safety Data Sheet (MSDS) available from Mason Chemical Company for information on the safe use, handling and disposal of this product.

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### **Masurf FS-Fluorosurfactant evaluation guidelines-**

Masurf FS-Fluorosurfactants are effective at very low concentrations, typically 50-500 ppm, and can act synergistically with hydrocarbon and/or silicone surfactants. Evaluate in aqueous formulations at 0.1-0.5% active Masurf FS-Fluorosurfactant initially, then optimize by successively reducing the FS concentration by ½.

Masurf FS-Fluorosurfactants and Masurf FP-Fluoropolymers do not contain PFOS. Masurf FS and FP products are manufactured with telomerization process fluoroaliphatic intermediates that do not contain, release or have been shown to degrade to perfluorooctane sulfonate (PFOS).

*\* Zonyl is a Registered Trademark of DuPont, Fluorad is a Registered Trademark of the 3M Company.*