

# CHEMGUARD FE-5000

## High Performance Fluoro-Emulsion Repellent

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### Product Description:

CHEMGUARD FE-5000 is a fluoro-silane emulsion material. It provides exceptional oil, water, alcohol and soil repellency. It has wide application in protecting fabrics, leather, carpets, wood, concrete, tile stone, and as a grout sealer.

### Chemguard FE-5000

- Exceptional Oil, Water, Alcohol and Soil Repellency
- Water-based
- Harder TG for fabrics and leather
- Vapor permeable to reduce cracking of outdoor hard surfaces
- Good stability on alkaline surfaces (Masonry, grout, concrete)
- Readily dilutes in water
- Excellent stability

### Typical Properties<sup>1</sup>

Appearance	Liquid, white dispersion
Ionic Character	Weakly cationic
Density	1.1 g/ml at 25°C
Solids Content	35%
pH	3-6
Flash Point	>220°F, TCC
Odor	Mild
Water solubility	Dispersible

<sup>1</sup> Not for specification purposes.

### Performance:

#### **Hard Surfaces:**

Chemguard FE-5000 is designed for applications on hard surfaces at room temperature. No heat curing is required. It is supplied as a concentrate that readily dilutes in distilled or softened water and has excellent storage stability as received and after dilution.

Chemguard FE-5000 can be diluted with up to 20 parts water before application and coverage will vary depending on porosity of the surface coated. Excess liquid applied should be wiped up if it has not penetrated after 10 to 15 minutes to avoid hazing. For best results a second coat should be applied within 1 hour of the first.

**Fabrics and leather:**

Chemguard FE-5000 can be applied by foam, spray, and padding methods. Use levels of 15-70 g/L (2-9 oz/gallon) are typically used. The pH of the applied solution should be maintained at 4-5 using 60% acetic acid. Dry at 80-100°C and cure at 120-150°C for 3 minutes.

**Storage and Shelf Life:**

Chemguard FE-5000 should be stored between 5°C and 40°C.

If frozen, warm to room temperature and stir well before use. Freezing and thawing will affect the properties and performance.

Shelf life is at least five years if stored tightly sealed in the original container at temperatures below 40°C (104°F).

**Health and Safety:**

Chemguard does not recommend this product for use in applications involving repeated exposure to skin contact, inhalation, or ingestion. This product is not intended to be used for medical, cosmetic, food or pharmaceutical applications.

Chemguard fluorosurfactants are based on telomer synthesis. No PFOS, no PFOA, and no derivatives that decompose to them are used in the manufacturing process. Chemguard FE-5000 is composed of predominately six carbon (greater than 95%) and shorter perfluoro chains with no known pathway of decomposing to PFOS or PFOA.

Please refer to the material safety data sheet (MSDS) for recommended disposal, handling, and protection information.

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