

CHEMGUARD FE-5000 High Performance Fluoropolymer Emulsion Repellent

Description

CHEMGUARD FE-5000 is an aqueous, fluoro-silane emulsion that 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.

Features

- 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

Properties

Appearance.....	Liquid, white dispersion
Ionic Character.....	Weakly cationic
Percent Actives.....	35%
Diluent Composition.....	Water
Density 25 °C (77 °F).....	1.1 g/ml
pH.....	3.5 - 5.5
Flash Point (Pensky-Martens, closed cup)....	> 95 °C (203 °F)
Freezing Point.....	4 °C (39 °F)
Refractive Index at 25%.....	1.376
Viscosity.....	10 cP

Note: Typical Properties are not for specification purposes.

Application

CHEMGUARD FE-5000 High Performance Fluoropolymer Emulsion Repellent is typically applied using a roller, paint brush, mop (for large horizontal areas), pads, and sponge. Wet the area thoroughly and allow to dry for 15-30 minutes, removing the excess. For maximum protection a second coat is recommended after the first coat dries at least 1 hour.

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

Levels from 30 g/L to 140 g/L (4 oz/gal to 19 oz/gal) are typically used. The pH of the applied solution should be maintained at 4-5 using 60% acetic acid. Dry from 110 °C to 130 °C (230 °F to 266 °F) and cure at 150 °C (302 °F) for 3 minutes.

Compatibility

CHEMGUARD FE-5000 is cationic and is compatible with other materials in the system except anionic additives. Check complex coatings for stability. Ensure that sealer formulas contain a biocide to improve stability.

Storage and Shelf Life

CHEMGUARD FE-5000 should be stored between 5 °C and 40 °C (23 °F to 104 °F). If frozen, warm to room temperature and stir well before use. Freezing and thawing may affect the properties and performance. Shelf life is two years if stored tightly sealed in the original container at temperatures below 40 °C (104 °F).

Health and Safety

CHEMGUARD FE-5000 is not recommended for use in applications involving repeated exposure to skin contact, inhalation, or ingestion.

Refer to the safety data sheet (SDS), available at www.chemguard.com, for recommended disposal, handling, and protection information.

Note: The converted values in this document are provided for dimensional reference only and do not reflect an actual measurement.

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