

CHEMGUARD FE-2313

High Performance Fluoro-Emulsion Repellent

Product Description

CHEMGUARD FE-2313 is a short-chain fluoro-emulsion material. It provides exceptional repellency and a good durability for an application in protecting fabrics, carpets, wood, concrete, tile stone, and as a grout sealer. The presence of a copolymer improves the efficiency of the fluorocarbons to achieve the repellency performances.

Attributes

- EXCEPTIONAL OIL, WATER, ALCOHOL AND SOIL REPELLENCY
- WATER-BASED
- COMPATIBLE WITH NUMEROUS CROSSLINKING AGENTS, CATALYSTS, STAINSBLOCKERS
- GOOD STABILITY ON ALKALINE SURFACES (MASONRY, GROUT, CONCRETE)
- MISCIBLE IN ALL PROPORTION IN (COLD) WATER
- EXCELLENT STABILITY
- BASED ON SHORT CHAIN C6-ALKYL FLUORINE CHEMISTRY

Typical Properties¹

Appearance	Liquid, white emulsion
Ionic Character	Weakly cationic
Density	1.05 g/ml at 25°C
Solids Content	30%
pH	2-5
Flash Point	>220°F, TCC
Odor	Mild
Water solubility	Dispersible

¹ Not for specification purposes.

Performance / Applications

Hard Surfaces:

Chemguard FE-2313 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.

Fabrics and leather:

Chemguard FE-2313 can be applied by foam, and padding methods. Use levels of 15-100 g/L are typically used. The pH of the applied solution should be maintained at 4-5 using 60% acetic acid. Dry at 110-130°C and cure at 150°C for 3 minutes.

The effects of repellency can be impaired by residues of auxiliaries on the fabric being finished like surfactants, silicone oils, softeners, fibers finish oils or dyeing assistants. We recommend a preliminary washing followed by rinsing and acidification

Storage and Shelf Life:

Chemguard FE-2313 should be stored between 5°C and 40°C.

If frozen, warm to room temperature and mix 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).

Compatibility:

Chemguard FE-2313 is weakly cationic and is compatible with other materials in the system. Complex coatings should be checked for stability.

Sealer formulas should contain a biocide to improve storage stability.

Health and Safety

Chemguard does not recommend this product for use in applications involving repeated exposure to skin contact, inhalation, or ingestion.

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-2312 is composed of predominately six carbon (greater than 98%) 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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