



innovative chemical technologies, inc.

FLEXIPEL MMP-25

TECHNICAL DATA SHEET

- ◆ **Partially Fluorinated Product That Provides Exceptional Protection For Hard Surfaces With Little Or No Change In Appearance. Provides Both Water And Oil Repellency.**
- ◆ **Contains A Built-in Antimicrobial Agent To Resist The Growth Of Mold, Mildew And Fungus On The Dried Protector**
- ◆ **Vapor-Permeable: Reduces Cracking, Spalling, Freeze/Thaw Damage**
- ◆ **Water Based – Low VOC, Ambient Cure**
- ◆ **Readily Dilutes In Water/Alcohol/Glycol Mixture With Excellent Shelf Stability**
- ◆ **Non-Acidic: Safe For Use On Surfaces That Will Etch (e.g. Polished Limestone, Marble)**
- ◆ **Good Stability On Alkaline Surfaces (e.g., Concrete, Grout, Masonry)**
- ◆ **Physically and Chemically Bonds To Substrates: UV Resistant, Increased Coating Life**
- ◆ **Makes Cleaning Easier, Improves Newness Retention**

APPLICATIONS

- ◆ **Marble, Limestone, Concrete/Masonry, Grout**
- ◆ **Saltillo Tile, Clay Tile, Stucco**
- ◆ **Granite, Terrazzo**
- ◆ **Slate, Field Stone, Blue Stone**
- ◆ **Wood (Including Pressure Treated Lumber)**

TECHNICAL INFORMATION

Flexipel MMP-25 is a partially fluorinated product designed for aftermarket, ambient cure applications to hard surfaces. However, it can also be used in OEM applications. Flexipel MMP-25 provides exceptional oil, alcohol, and water repellency. It is used to protect fine stone and concrete of all types. This anionic fluorochemical dispersion stands out compared to other fluorochemical hard surface protectors because it also contains an antimicrobial agent so that the cured sealant is mildew resistant. It is compatible with a broad range of materials and delivers excellent water repellency in their presence. Flexipel MMP-25 allows you to use one product across a broad range of hard surfaces with superior results.

Flexipel MMP-25 is a concentrated product that readily dilutes in deionized or softened water and aqueous cosolvent solutions with exceptional storage stability even after diluted. Products formulated with Flexipel MMP-25 meet all current VOC regulations.

Because the antimicrobial protection is already in the product, there are practical limits for dilution which should be followed in order to effectively confer the desired mold and mildew resistant properties to the dried sealant.

FORMULARY

Recommended dilution rates vary from 10% to 12% of Flexipel MMP-25 depending on the application, application rate, porosity of the substrate, desired performance and cost parameters.

Dilutions: Hard surface applications and coverage rates will vary depending on the surface and the performance required, but typically 10% Flexipel MMP-25 will provide excellent oil and water repellency on concrete, brick, stucco, pavers and tile when applied at the rate of 1 gallon per 200 to 400 square feet. Low porosity stones and surfaces will yield higher coverage. Application to wood surfaces yields oil repellency, but not water repellency.

Storage : For long-term storage a suitable preservative, such as 0.1% by weight of Proxel GXL, should be added unless sufficient isopropanol is used as a co-solvent.

Note: Cure time for maximum water protection is approximately 24 to 72 hours; however, repellency will start to develop almost immediately. Application rates, concentration of Flexipel MMP-25 and temperature/humidity can impact dry/cure times.

Starting Formula - Example:

Warm and mix 12% Flexipel MMP-25 with 3% Isopropanol and 3% Glycol Ether EB to approximately 50 Centigrade to form a clear solution. While still warm, add 82% deionized water with mixing to form a clear final product that is ready to apply.

Note: Warming step gives the best final product clarity; however, room temperature blends give very acceptable final products also.

TYPICAL PROPERTIES

Appearance	Viscous, Tan Emulsion
Density @ 25 ⁰ C	1.09 +/- 0.04 g/mL (9.2 lbs/gal)
pH (as is)	8-10
Water Solubility	Dispersible
Boiling Point	Approx. 100 ⁰ C
Actives:	30-35%

PACKAGING/HANDLING

Flexipel MMP-25 is available in totes (Net Wt. 2205 lbs),
55 gallon drums (Net Wt. 441 lbs) and 5 gallon pails (Net Wt. 40 lbs).
DOT Classification is Non Regulated.