



innovative chemical technologies, inc.

FLEXIPEL Q-1000

TECHNICAL DATA SHEET

- ◆ **Polar, Solvent Based Silane Solution: Delivers A Durable, Invisible Coating Under Ambient Cure Conditions**
- ◆ **Stable And Soluble In Alcohols, Glycols, Glycol Ethers And Other Polar Solvents**
- ◆ **Polymerizes Slowly In Water: Shelf Life = 4 – 8 Hours**
- ◆ **Renders Scratch Resistance To Glass/Tiles/Ceramics**
- ◆ **Improves Appearance, Brilliance And Clarity Of Treated Glass Surfaces**
- ◆ **Dissolves In Water, Easy To Apply (Wipe/Dip/Roll/Brush/Spray)**
- ◆ **Imparts Durable Water Repellency, Antistatic Properties And Lubricity**
- ◆ **Economical, 72% Active Product**

APPLICATIONS

- ◆ **Durable Scratch Resistant Coating For Glass, Mirrors, Tile, And Ceramics**
- ◆ **Durable Lubricant**
- ◆ **Durable Antistat**
- ◆ **Inexpensive, Durable Water-Repellent Barrier On Concrete**
- ◆ **Rubber And Plastic Mold Release For Mandril And Cast Applications**
- ◆ **Automotive Windshield Protector For Improved Visibility During Rain**

TECHNICAL INFORMATION

Flexipel Q-1000 is a concentrated (72% active) cationic silane formulation dissolved in methanol that delivers an invisible, durable coating by chemically bonding to surfaces as varied as stone, concrete, glass, tile, and fabrics of all sorts. Once on the surface, depending upon the substrate, it can impart water repellent, antistatic, release, and lubricious properties. After treatment on a glass slide, for example, the coefficient of friction was reduced to less than 0.1, increasing the scratch resistance of the glass between five and tenfold as measured by a Hoffman Tester (glass stylus). As a windshield protector, it creates a water repellent glass surface and improves visibility during rainy weather.

FORMULARY

Windshield Glass Protector: a 0.5% solution of Flexipel Q-1000 in alcohol, wiped on with a soft cloth, provides rain repellency, reduces the tendency of snow/sleet to stick to the windshield, and renders the glass scratch resistant.

TYPICAL PROPERTIES

Appearance	Viscous liquid that stratifies and solidifies on standing
Color	Off-white to pale amber
Density @ 25C	0.96 +/- 0.02 g/ml (8.0 lbs/gal)
pH (10%)	3 - 7
Water Solubility	Soluble
Boiling Point	149 F
Odor	Alcoholic
Shelf Life	12 months

PACKAGING/HANDLING

Flexipel Q-1000 is available in 55 gallon drums (Net Wt. 425 lbs) and 5 gallon pails (Net Wt. 40 lbs).

DOT Classification is Flammable Liquid, N.O.S. Class 3

UN Number: UN1993 Packing Group II