



# Flexipel™ Q-1000

Reactive Silane Surface Modifier

## Overview

- Polar, solvent-based Silane Solution which delivers a durable and invisible coating with ambient cure
- Stable & soluble in alcohols, glycols, glycol ethers, & other polar solvents
- Provides scratch resistance to glass, tiles, and ceramics
- Improves appearance, brilliance, and clarity of treated glass surfaces
- Imparts durable water repellency, antistatic & lubricity properties with aqueous applications to substrates which contain hydroxyl groups, silanols, and metals/metal oxides such as glass, ceramics, cotton & cotton blends, paper, cellulose, wood, wool, oxidized/ weathered plastics, concrete, various stone surfaces, and metal.
- Economical, 72% actives product

## Applications

- Durable scratch resistant coating
- Automotive windshield protector for improved visibility during rain
- Durable anti-stat
- Durable water-repellent barrier on concrete, stone surfaces, and cellulosic substrates
- Surface treatment of inorganic powders, sands, silicas, fillers, etc. for improved compatibility in a polymer matrix

## Technical Information

Flexipel™ Q-1000 is a concentrated (72% actives) cationic silane formulation dissolved in methanol which delivers an invisible, durable coating by chemically bonding to surfaces such as stone, concrete, glass, tile, and cellulosic substrates. Once on the surface, depending upon the substrate, it can impart water repellency, antistatic, release, and lubricity properties.

After treatment on a glass slide, the coefficient of friction was reduced to less than 0.1, increasing the scratch resistance of the glass between 5X-10X as measured by a Hoffman Tester (glass stylus). As a windshield protector, it creates a water repellent surface and improves visibility during rainy weather.

## Formulary

**Mix this product thoroughly in its container prior to removal for use. Since this is a flammable material, use appropriate mixing equipment.**

Refer to the SDS for information. Due to its high concentration, Flexipel Q-1000 is prone to stratify on standing at temperatures below 30°C (86°F).

**Windshield Glass Protector:** Prepare a 0.5% solution of Flexipel Q-1000 in alcohol. Apply by wiping onto the surface with a soft cloth.

**For aqueous preparations,** the product is dissolved in water and then applied by one of several methods: wipe, dip, roll, brush, or spray. \*Note that when the product is dissolved in the water, it must be applied to the substrate within 4-8 hours because the product will polymerize in water.

## Typical Properties

PROPERTY	VALUE
Appearance	Viscous liquid that stratifies on standing
Color	Colorless to pale amber
Odor	Alcoholic
Water solubility	Soluble
pH, 10% sol'n	3 to 7
Density@25°C	0.94 ± 0.02 g/ml
Boiling Point	149°F (65°C)
Flash point	93°F (34°C)
Storage	Perishable if frozen, Mix before use
Shelf life	12 months

\* Product may separate when thawed after freezing; thaw/mix thoroughly before use. Slightly higher viscosity after freezing.

## Packaging and Handling

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

Refer to the Safety Data Sheet (SDS) for information on the safe use, handling, and disposal of this product.

**DOT Classification: Flammable Liquid**  
N.O.S. Class 3  
UN Number: UN 1993, Packing Group III

Whether you're looking for a replacement product or an ingredient for a specific attribute, give us a call. We can provide assistance based upon your particular formulation requirements and composition; please feel free to contact us.

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This information relates only to the specific material referred to herein and not to its use in combination with any other material or in any process, unless explicitly stated herein. Such information is, to the best of our knowledge and belief, accurate and reliable as of the date compiled; however, no warranty, guarantee or other representation is made as to its accuracy, reliability, or completeness, or regarding any liabilities arising from others' intellectual property rights. ID# 20230227

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