



# Flexipel Q-50

## Overview

- Water-Based Silane Emulsion: Delivers a Durable, Invisible Coating Under Ambient Cure Conditions
- Significantly Improves Scratch Resistance of Glass/Tiles/Ceramics
- Reduces Coefficient of Friction: As an Additive in Household Cleaning Products, It Makes Polishing/Wiping Easier
- Stable in DI Water, Easy to Apply (Wipe/Dip/Roll/Brush/Spray)
- Imparts Water Repellency and Antistatic Properties
- WERCS ID number: WPS1145608
- WERCS Validation number: 1145608

## Applications

- Durable Scratch Resistant Coating for Glass, Mirrors, Tile, and Ceramics
- Durable Lubricant
- Durable Antistat
- Inexpensive, Durable Water Repellent Barrier on Concrete and Other Hard Surfaces
- Water Based Rubber and Plastic Mold Release for Mandril and Cast Applications
- Automotive Windshield Water Repellent for Improved Visibility During Rain (Protector or Windshield Washer Fluid Additive)
- Antistatic Dusting Aid Additive

## Technical Information

Flexipel Q-50 is a stabilized cationic silane formulation in water 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, making wiping/polishing much easier in cleaning products, and increasing the scratch resistance of the glass between five and tenfold as measured by a Hoffman Tester (glass stylus). In furniture polishes, it not only adds lubricity, but leaves behind an antistatic coating that reduces the rate at which dust accumulates after cleaning. As a windshield washer fluid additive, it provides water repellency to the glass surface and improves visibility during rainy weather.

## FORMULARY

### Windshield Washer Fluid Additive:

Add 0.1 - 0.5% by weight of Flexipel Q-50 to a typical "off the shelf" windshield washer fluid, to provide residual water beading effects after use.

### Windshield Glass Treatment:

A 5% solution of Flexipel Q-50 in DI water, 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 (reduces pitting).

### Furniture Polish Additive:

As an additive to furniture polish, 2-5% Flexipel Q-50 provides antistatic benefits, lubricates the surface, making it more scratch resistant. Any cloudiness from accidental over-application polishes out readily with a soft cloth.

## Typical Properties

Appearance	Clear to slightly hazy liquid
Color	Colorless to pale yellow
Odor	Mild
Viscosity	Low to Moderate Viscosity that Increases Over Time
Density @ 25°C	1.00 +/- 0.02 g/ml (8.35 lbs/gal)
pH	4.0 - 7.0
Water Solubility	Soluble in DI water
Shelf Life	6 months

## Packaging and Handling

Flexipel Q-50 is available in 275 gallon totes (Net Wt. 2250 lbs), 55 gallon drums (Net Wt. 450 lbs) and 5 gallon pails (Net Wt. 40 lbs).

DOT Classification is Non Regulated.

Refer to the SDS (Safety Data Sheet) for additional information.

**Do Not Freeze.**

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