

Newsletter HomeCare 4/2021

Hard Surface treatment – Your Choice: Hydrophobic Flexipel Q50/Hydrophilic Flexipel SR-80

Hard surface treatment

Flexipel Q50

An aqueous, water stable, reactive silane which readily dissolves in water to produce a range of benefits including antistatic, lubricity, water repellency and scratch resistance. This product can be used to provide high water bead-up in drying additive for car wash.

Flexipel SR-80

Aqueous polymer used to impart a hydrophilic and easy clean surface which resists soap scum build-up, hard water deposits, and oily soil. Provides spot-free drying and anti-fogging benefits in hard surface cleaners and treatments, as well as for vehicle care including applications with rinse.

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Flexipel Q50

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, makes polishing/wiping easier
- Stable in DI water, easy to apply (wipe/dip/roll/brush/spray)
- Imparts water repellency and antistatic properties

Applications

- Durable scratch resistant coating for glass, mirrors, tile, and ceramics
- Repellent barrier on concrete and other hard surfaces
- Automotive windshield water repellent for improved visibility during rain (protector or windshield washer fluid additive)
- Antistatic dusting aid additive

Fleixpel SR-80

Overview

- Aqueous polymer used to impart an invisible, durable oily soil, soap scum and hard water deposit barrier on hard surfaces
- Provides spot free drying and anti-fogging in hard surface cleaners and treatments
- Compatible with nonionic, anionic, amphoteric and some cationic materials in neutral, acid, alkaline and peroxide environments
- Imparts a hydrophilic and self-cleaning/easy cleaning surface

Applications

- Hard surface cleaners: tub & tile, all-purpose, multi-surface, glass, bowl, grout, floor, pool & spa, wheel, transportation & vehicle
- End of hose glass & surface cleaners
- Vehicle drying & rinse aids





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. 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.

Clear to slightly hazy liquid



Technical Information

Flexipel SR-80 functions over a broad pH range. Durability of the mono-molecular layer is dependent on

several variables (e.g. surface compositions, UV exposure, use levels, etc.)

Dyes & fragrances are compatible with Flexipel SR-80. Safe for use on: Glass, Ceramics, Stone, Concrete, Masonry, Stainless Steel, Acrylics, Painted Surfaces, Polystyrene, ABS and Polycarbonate.

Typical Properties Appearance

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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)
рН	4.0 - 7.0
Water Solubility	Soluble in DI water
Shelf Life	6 months

Typical Properties

Appearance	Clear, viscous liquid
Density @ 25 °C	1.04 +/- 0.02 g/ml (9.7 lbs/gal)
рН	2.2 to 3.0
Water Solubility	Soluble
Boiling Point	Approx 100 °C
Shelf Life	12 months



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. **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.

Flexipel SR-80 is used at levels of 0.25 - 2.0% in ready-to-use formulations.

Ideal pH for polymer solubility is < 3.5

Acid pH keeps the polymer in full cationic form allowing for optimal sheeting action.

Completely functional in neutral and alkaline environments when properly formulated

Stable in Peroxide formulations



PersonalCare

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