



TECHNICAL DATA SHEET

FUMED SILICA

PRODUCT DESCRIPTION

The Concrete Protector's Fumed Silica is a synthetic, amorphous, colloidal silicon dioxide that is generally used in many applications and a variety of industries.

STANDARD COLORS: White

OTHER COLORS ALSO AVAILABLE: N/A

REVISION DATE: September 21, 2022

CURE SCHEDULE (75°)

POT LIFE (1.5 GAL VOLUME): N/A

TACK FREE (DRY TO TOUCH): N/A

RECOAT OR TOPCOAT: N/A

LIGHT FOOT TRAFFIC: N/A

FULL CURE: N/A

COVERAGE

Recommended for the thickening of various resins and epoxies

COVERAGE PER GALLON: N/A

MIX RATIO: N/A

RECOMMENDED FILM THICKNESS: N/A

PACKAGING INFORMATION: 10 lb. Bag

PHYSICAL PROPERTIES

B.E.T SURFACE AREA: 200 m²/g

PH (4% AQUEOUS SLURRY): 3.7-4.3

SPECIFIC GRAVITY WT. PER GALLON: 2.2 g/cm³ 18.3 lb

325 MESH RESIDUE (44 MICRONS): 0.02% max.

BULK DENSITY (POUR DENSITY): 3.0 lb/ft³ max. (50 g/l Tap Density)

REFRACTIVE INDEX: 1.46

AVERAGE PARTICLE (AGGREGATE)

LENGTH: 0.2-0.3 microns

X-RAY FORM: Amorphous

ASSAY (% SiO₂): > 99.8

SHELF LIFE: N/A

CHEMICAL RESISTANCE

N/A

LIMITATIONS

- Easy to produce temperature cracks in concrete

BENEFITS

- Versatile and used in a variety of applications
- Colorless and clear when mixed with liquids and polymers
- Used for thickening, increased viscosity
- Anti-sag, anti-settling of loads, pigments, heavy active ingredients, etc.



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INSTRUCTIONS

- 1) Add a small amount of fumed silica to resin (epoxy, etc.)
- 2) Using a low speed mixer or spatula, mix into the resin until thoroughly blended
- 3) Keep adding small amounts of fumed silica until desired consistency

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