

## GreenSil Siloxane Primer

### **Description:**

Concreation GreenSil Siloxane Primer is water-based emulsion with polysiloxane and emulsifier concrete sealer that has been specifically designed for use on a multitude of concrete and masonry surfaces. GreenSil Siloxane Primer works best as a prime coat for topical sealers, improving adhesion and increasing protection. GreenSil Siloxane Primer penetrates deeply into concrete and masonry surfaces, providing maximum protection and durability against oil and dirt penetration. Hydrophobic silicones and silanes are well known to protect construction from humidity or water attacks. GreenSil Siloxane Primer masonry water repellents improve freeze thaw resistance and reduce efflorescence. GreenSil Siloxane Primer also minimizes spalling and cracking to provide installations with a lasting enhanced visual appearance. GreenSil Siloxane Primer will suppress the growth of micro-organisms and dramatically improves the durability on all types of masonry. GreenSil Siloxane Primer is compliant with EPA and VOC Regulations.

### **Suggested Application:**

GreenSil Siloxane Primer is to be applied as prime coat for topical sealers and paints on almost any concrete or masonry surface, interior and exterior. Two coats of the GreenSil Siloxane Primer should be applied using a "wet-on-wet" procedure to ensure complete coverage. GreenSil Siloxane Primer can be applied by brushing, spraying or mopping. Maximum water repellency is realized in 72 hours depending on curing conditions. Beading generally improves over time.

## Advantages

- Provides water repellency to reduce cracking, spalling, freeze / thaw damage, chemical degradation, biological growth, efflorescence, and dirt pickup, thereby lengthening substrate life and reducing maintenance costs
- Provides beading for improved aesthetics
- Superior storage stability including freeze/thaw stability for ease of use
- Low VOC emissions on curing; EPA compliant
- Formulated to minimize darkening effects thus not changing substrate appearances
- Good stability on highly alkaline surfaces for long term durability
- Physically and chemically bonds to substrates increasing coating life and making cleaning easier, thereby reducing maintenance costs
- Coatings are UV stable and resistant to biological degradation for longer service life leading to less cost for repetitive applications
- Coatings are vapor permeable to resist cracking, peeling and blistering, and allowing carbonation to continue after coating application. This lengthens coating and substrate lives and allows for greater substrate structural strength over time
- Coatings can improve adhesion of paints to mineral substances thus priming them for painting

## Benefits

- High performance coatings - protect / enhance appearance
- Easy application and clean up
- Broad application space
- Long lasting
- Reduced application restrictions due to odor to customers
- Faster application and facility use
- Application flexibility
- Meets or exceeds environmental regulations
- Minimizes discoloration from dirt / spills

### Surface Preparation:

Surface preparation depends on substrate placement, type and strength, curing and finishing processes, age, condition, previous contamination, and the presence of previous coatings as well as the application of GreenSil Siloxane Primer. Surfaces should be clean from dust, dirt, oils, grease, curing compounds, other coatings, efflorescence, and laitance before applying GreenSil Siloxane Primer. Cleaning methods which are compatible with the application of GreenSil Siloxane Primer include:

- Mechanical - abrasive blasting (sand, baking soda, vacuum)
- Chemical - acid etching, stripping, solvent de-greasing, caustic soda scrubbing, alkaline soap scrubbing, high pressure washing, high pressure washing with sand
- Heat - propane and acetylene torching

If strongly acidic or caustic cleaning agents are used, neutralize the surface and completely wash to remove any residues. Before using any surface preparation method a test patch should be performed with the customer's approval to ensure that their needs are met.

New concrete should be allowed to cure for at least 28 days before applying GreenSil Siloxane Primer. In addition, any repair work should be performed at least 3 days before GreenSil Siloxane Primer is applied.

### Coverage:

<b>Smooth Concrete Floors:</b>	300 - 350 sq.ft./gal
<b>Rough Textured Concrete:</b>	175 - 225 sq. ft / gal
<b>Extruded Clay Brick:</b>	100 - 120 sq.ft./gal
<b>Dry-pressed Clay Brick:</b>	70 - 90 sq.ft./gal
<b>Smooth Textured Stucco:</b>	230 - 270 sq.ft./gal
<b>Rough Textured Stucco:</b>	120 - 150 sq.ft./gal
<b>Smooth Textured Concrete Block:</b>	70 - 80 sq.ft./gal
<b>Split Faced Concrete Block:</b>	50 - 60 sq.ft./gal

**Physical Properties:**

<b>Appearance:</b>	White, opaque emulsion
<b>Freeze/Thaw Stability:</b>	Yes
<b>Solids, weight (%):</b>	>25
<b>Thermal Stability:</b>	Yes
<b>Mechanical Stability:</b>	Yes
<b>Density(g/ml):</b>	0.95
<b>pH:</b>	8.0
<b>Density(lbs/gal):</b>	7.9
<b>Viscosity, Brookfield (cps):</b>	12
<b>VOC – gm./liter:</b>	30.6
<b>Flash Point (°C):</b>	>100
<b>VOC – lbs./gallon:</b>	0.26
<b>Flash Point (°F):</b>	>212