



# SILANE/SILOXANE LIQUID CONCENTRATE

# WATER-SIL-48

## MULTI-SURFACE SEALER / WATERPROOFER

## PRODUCT DESCRIPTION

Water-SIL-48 is a liquid concentrate multi-surface water repellent that is easy to dilute with clean water on the job site. Water-SIL-48 is a solvent-free penetrating product that provides long-term water repellency and protection to most masonry and wood substrates and does not damage glass or metal surfaces. This low-odor formula is also perfectly safe to spray around grass and other landscape plantings and water features. Water-SIL-48 is a vapor permeable repellent that allows the substrate to continue to exchange gases with the environment. This is most beneficial when applying to new or damp construction surfaces.

## FEATURES

- Prevents water damage, mold and mildew
- Vapor Permeable - does not trap moisture
- Can be applied when substrate moisture level is up to 25%
- Protects surface against de-icing salts & chemicals
- VOC Compliant
- Alkaline Stable - safe for use on new concrete
- Easy to Mix Concentrate - makes up to 19 gallons of water repellent
- Can be used in cold temperatures (above 35° F)
- Prevents Efflorescence
- Meets USDA specifications for use in food processing areas
- Dries completely clear / non-yellowing
- Resistant to UV degradation allowing for long-term protection
- Provides abrasion resistance to resist wear on substrates
- Exceeds federal specifications for water repellency on masonry, brick, wood, and other construction materials

## TYPICAL TECHNICAL DATA

**Appearance - Milky White**

**Solids Content - 80%**

**Weight/Gal. - 8.1 pounds diluted**

**VOC Content - <10 grams per Liter**

**Water Solubility - Disperses readily**

**Flash Point - Non-Flammable**

**Boiling Point - 212° F (min.)**

**Odor - Mild Ammonia odor**

**pH - Not applicable**

**Dry Time - Approximately 1 hour**

## LIMITATIONS

- Product cannot be exposed to water for 12 hours after application.
- Suited for above grade use only and will not withstand hydrostatic pressure.
- Cannot be applied in freezing temps or if temps will be falling below 32° F within 24 hours after application
- Must be stored between 35° F - 105° F
- Not for use on surfaces that have direct contact with food.

## COVERAGE RATES

### **Material .....Approx Coverage per diluted Gallon**

Concrete Smooth .....	300 - 400
Concrete Block Lt.Wt. ....	75 - 150
Sand Block Cast Stone .....	200 - 300
Brick Porous .....	150 - 200
Stucco Smooth Finish .....	150 - 200
Wood Porous .....	200 - 250
Concrete Textured .....	200 - 300
Concrete Block Dense .....	150 - 200
Sandstone .....	150 - 200
Brick Dense .....	300 - 350
Stucco Rough Finish .....	100 - 150
Wood Dense .....	300 - 380

## TEMPERATURES

Make sure the air and substrate surface temperatures are no lower than 35°F. Assure that temperatures will not fall below freezing for at least 24 hours after application. If surfaces have been exposed to freezing immediately prior to application, allow surface to thaw.

Try to avoid application in extreme heat as this will cause the material to evaporate too rapidly and will prevent desired penetration into substrate.

STORE PRODUCT IN A COOL, DRY PLACE BETWEEN 45-100°F

## DILUTION

### **VERTICAL DILUTION**

***Porous: 1:9***

***Semi-Porous: 1:14***

***Dense: 1:19***

### **HORIZONTAL DILUTION**

***Porous: 1:7***

***Semi-Porous: 1:9***

***Dense: 1:14***

Water-SIL-80 : Clean Water

## SURFACE PREPARATION

Before applying Water-SIL-48 all surfaces should be clean and free from dust, dirt, oils, grease, curing compounds, coatings, mildew, mold, algae, other water repellents or any other contaminants. If efflorescence (white residue) is present, wash surface with cleaner and / or pressurized water. Rinse any cleaning product thoroughly from the substrate. Application to a dry surface is preferred to facilitate maximum penetration for optimum performance but a surface moisture level of 25% or less will yield desired results as well. Wood and masonry surfaces may be cleaned by any agreeable method such as: Power wash, sweep, deck cleaners, stain removers / strippers.

## PRODUCT APPLICATION

Water-SIL-48 should be diluted with clean water before use. Please refer to package directions for dilution ratios.

Apply diluted Water-SIL-48 using low pressure spray equipment. To avoid atomizing product, use a spray tip size of .035 to .051. Water-SIL-48 can also be applied with a brush, roller, or mop but spraying is recommended.

Apply uniformly and avoid over-application. Heavy runs and drips should be thoroughly brushed into the surface. On extremely porous substrates, two applications will provide super application.

For interior applications it might be necessary to scrub floors after the product dries to remove any excess material from the surface that might cause slickness.

Apply the second coat immediately after the first coat has penetrated. Control application so that the second coat is applied within a few minutes after the first coat appears dry.

## CLEANUP

Thoroughly wash all equipment and clothing after use. Application equipment may be cleaned with soap and water. Also, clean any unwanted overspray immediately with water. A cleaner may be needed but water should be enough to wash product off of glass, metal, etc.

## PRODUCT TEST DATA

Water Penetration Characteristics of Clay Masonry Wall Specimens Treated With Water-SIL \*

Wall Specimen	Treatment	Application Rate (sq.ft/gal)	Average Leakage Rate (1/hr) Before Application	Average Leakage Rate (1/hr) After Application	Reduction in Leakage Rate (%)
1	Water-SIL (5% Solution)	108	5.68	0.87	84.7
2	Water-SIL (5% Solution)	110	6.47	1.74	73.1
3	Water-SIL (5% Solution)	102	7.72	2.10	72.8
Average		107			76.9

\* Determined in accordance with ASTM E 514-90, "Standard Test Method for Water Penetration and Leakage Through Masonry."

## PRECAUTIONS

Avoid repeated contact with skin. Do not take internally. Avoid contact with eyes. If solution does come in contact with eyes flush immediately with water and contact a physician for medical attention. Do not breath vapors. All containers should be kept closed and free from water. Keep out of children's reach. To avoid unnessessary overspray & cleanup cover furniture, shrubs, plants and any other items when applying.

## WARRANTY

If this Eco Advance product is proven defective, the user's exclusive remedy will be, at Eco Advance's option, to replace the defective Eco Advance product or to refund the purchase price for the defective quantity. Except for the replacement or refund remedies, Eco Advance is not liable for direct damages or liable for indirect, incidental or consequential damages, regardless of the legal theory asserted, including negligence and strict liability.

## CUSTOMER CARE

Complete technical assistance and information are available from:

**Eco Advancements, Inc.**  
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