

# GSS-500 Aqua-lock™ WB Water Repellent & Concrete Sealer

## MASONRY WATER REPELLENTS

### Product Description

GSS-500 Aqua-lock™ WB is a solventless silicone microemulsion concentrate based on silanes and siloxanes that is diluted with water to yield microemulsions. The dilute, aqueous solution of GSS-500 Aqua-lock™ WB serves as a high-quality, general-purpose water repellent for impregnating and priming mineral and even alkaline substrates. GSS-500 Aqua-lock™ WB serves also as a chemical damp proofing agent in diluted aqueous solution.

### Special Features

Water-free and solventless silicone concentrate spontaneously dilutes with drinking water, i.e. without the need for sophisticated mixing devices. Silicone microemulsions which have been activated with water must be used on the day of preparation

Advantages over ready-to-use products:

- lower packaging costs
- fewer problems with empty containers
- disposal (15 times less packaging)
- lower storage and transport costs

### Worksite Preparation

Ensure that people, vehicles, property, foliage, surfaces not to be coated or that may be subject to splash, fumes, wind drift of product are protected.

Ensure fresh air entry and cross-ventilation during application and drying process. Extinguish all flames, pilot lights and any other potential sources of ignition during the application and drying process.

### Substrate Preparation

Substrate should be thoroughly dry, cleaned, and free from dust, surface dirt, oil, grease, cleaners and other contaminants that might prevent adhesion of coating. New concrete should be thoroughly cured 28 days before application. Sealants and caulking should be fully cured prior to application.

### Surface and Air Temperatures

Surface and air temperatures should be 45-95°F during application.

### Application

Diluted with water, GSS-500 Aqua-lock™ WB is used as a general-purpose water repellent for absorbent, mineral, and even alkaline substrates, such as natural stone, brick, concentrate and sand-lime brick, as well as for mineral paints and stuccos.

GSS-500 Aqua-lock™ WB is also suitable as a primer for dispersion-based paints and plasters, silicone resin paints and plasters, concrete coatings, and as a water repellent for the in-plant treatment of lightweight aggregates and clay building material, aerated concrete, sand-lime brick, fibrous cement, and mineral fibers.

1. **Apply GSS-500 Aqua-lock™ WB water repellent using a low-pressure sprayer (Hudson type) until fully saturated in a wet-on-wet method, with a 6" to 8" run down.** Do not allow first flood coat to dry completely as this will affect the penetration and saturation of the second flood coat.
2. After application of GSS-500 Aqua-lock™ WB allow the treated surface to dry for at least 24 hours to develop maximum repellency.

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### Processing

GSS-500 Aqua-lock™ WB which has been diluted with water should be used on the day of dilution, i.e. only dilute as much product as can be used on the same day.

The building material to be treated should look dry.

The dilution should be liberally applied in two coats, flood coated wet-on-wet to the surface of the building material. **It should not be applied under pressure or as an aerosol.**

Before applying GSS-500 Aqua-lock™ WB, be sure to cover windows and other non-absorbent surfaces properly because the product cures so quickly that it will be extremely difficult, if not impossible, to remove after a few days. Immediately wipe off any splashes on window panes using soapy water or, if necessary, an organic solvent.

### Dilution GSS-500 Aqua-lock™ WB Water Repellant

Dilute the concentrated GSS-500 Aqua-lock™ WB in a 6:1 ratio.

Examples: 1 quart of GSS-500 Aqua-lock™ WB to 2.5 gallons of cool clear water. Yields 2.75 gallons total.

1 gallon of GSS-500 Aqua-lock™ concentrate to 6 gallons of cool clear water. Yields 7 gallons total.

**Dilution rate remains the same, but the actual spread rate will be dependent upon substrate.**

### Warranty

GSS Coatings, LLC guarantees that if the substrate is properly prepared and the GSS-500 Aqua-lock™ WB properly applied, it will exhibit water repellency on treated surfaces for five years. Should lack of water repellency occur through treated areas during the warranty period, GSS Coatings, LLC will supply GSS-500 Aqua-lock™ WB product necessary to restore a water repellent condition to the affected area at no extra cost, subject to certain limitations.

**THIS WARRANTY EXCLUDES FROM THE COVERAGE ANY AND ALL OTHER PRODUCTS NOT INCLUDED IN THE WARRANTY PRODUCT DESCRIPTION. REPLACEMENT OF PRODUCT AS PROVIDED UNDER THIS WARRANTY IS EXCLUSIVE REMEDY. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE MADE WITH RESPECT TO THE PRODUCT, INCLUDING WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER MATTER. IN NO EVENT SHALL GSS COATINGS, LLC BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES AS A RESULT OF THE PURCHASE OR USE OF THIS PRODUCT.**

### Successful Application Tips

- Follow safety procedures
- Properly prepare the surface
- Beware of environmental conditions
- Use clean equipment, no cross-contamination
- Follow mixing and application instructions
- Be aware of wind conditions, surrounding vehicles, homes, and businesses.
- Properly clean-up, store and dispose of products and equipment.

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### Equipment

Use low pressure sprayer (Hudson type) to apply GSS-500 Aqua-lock™ WB.

### Clean Up & Disposal

Clean low pressure sprayer by thoroughly rinsing with warm soapy water.

Dispose of unused product and container in accordance with local, state and federal regulations.

### Storage

The containers must be protected from sunlight.

Stir well before taking emulsion from containers.

The 'Best use before [date]' of each batch is shown on the product label.

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case, however, the product must be checked to ensure that its properties are intact and effective for its intended use.

### Safety Notes & Information

GSS-500 Aqua-lock™ WB

Read MSDS for precautionary instructions prior to use.

Comprehensive instructions are given in the corresponding Material Safety Data Sheet. They are available on request from GSS Coatings, LLC.

### First Aid Information

**Ingestion:** If ingested, call a physician immediately. **ASPIRATION HAZARD:** Do not induce vomiting or give anything by mouth. Only induce vomiting at the instructions of a physician. If vomiting occurs, keep head below waist to prevent entry of liquid into lungs.

**Eye Contact:** Rinse eye thoroughly for 15 minutes. Get medical assistance if irritation persists

**Skin Contact:** Rinse thoroughly with soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if irritation persists.

**Inhalation:** Remove to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get immediate medical attention.

**24 Hour Emergency Information:**  
Chem-Tel 800-255-3924

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### GSS-500 Aqua-lock™ WB Substrate Coverage Guide

Always test to ensure substrate aesthetics and coverage.

Substrate	Type	Concentration %	Est. Coverage Rate ft <sup>2</sup> /diluted gal.	Performance Two Coats
Architectural	Honed	17	100-125	Exceeds 90%
Concrete	Smooth	17	100-125	Exceeds 90%
Block	Ribbed Slit-	17	100-125	Exceeds 90%
	Faced	17	100-125	Exceeds 90%
Concrete	Brick	17	100-125	Exceeds 90%
	Tile	17	100-125	Exceeds 90%
	Precast Panels	17	100-125	Exceeds 90%
Fire Clay	Cast-in-place	17	100-125	Exceeds 90%
	Brick	17	100-125	Exceeds 90%
	Tile	17	100-125	Exceeds 90%
	Terra Cotta	17	100-125	Exceeds 90%

### GSS-500 Aqua-lock™ Test Data

Test Method		Concentration %	Coverage Rate ft <sup>2</sup> /gal.	Performance One Coat
NCHRP 244 Report Series II	Reduction in Water Absorption	17.5	125	80%
	Reduction in Chloride Ion Content			83%
	Water Vapor Transmission			100%
NCHRP 244 Report Series IV, Southern Exposure	Accelerated Weathering Test:	17.5	125	No Discoloration
	Resistance to UV Light Reduction in Soluble Chloride			96% Reduction in Soluble Chloride
ASTM E 514-86 (04.05)	Water Penetration and Leakage Through Masonry	10.0	125	86% Reduction in Leakage Rate
ASTM C-672 (04.02)	Scaling Resistance	10.0	125	0 Rating (50 Cycles) (0-5 rating; 0 = no scale, 5=heavy scale)
Federal Specification SSW – 110C	Water Repellency (1.0% maximum Specified)	15.0	N/A	0.3% Water Absorption
EPA 24/AS TM D3960/ASTM D 5095	Volatile Organic Content (VOC)	17.5	N/A	2.37 lbs./gallon (284g/l)

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## Product data

Typical general characteristics	Inspection Method	Value
Appearance		clear
Color		yellowish to reddish
Silane / siloxane content		approx. 100 %
Density at 25 °C	DIN 51757	0.95 – 0.97 g/cm <sup>3</sup>
Viscosity, dynamic at 25 °C	DIN 51562	1 - 10 mPa.s
Flash point	-	25 °C

These figures are only intended as a guide and should not be used in preparing specifications.

## PRODUCTS AVAILABLE FROM GSS COATINGS, LLC

GSS-100 ANTI-GRAFFITI COATING SYSTEM (CLEAR)  
GSS-200 ANTI-GRAFFITI COATING SYSTEM  
(CUSTOM COLOR)  
GSS-500 AQUALOCK WATER REPELLENT  
GSS-400 ERASOL GRAFFITI REMOVER



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