

GSS-10™ Graffiti Solution System: GSS-100 and GSS-200 Top/Finish Coats

System Overview

GSS Coatings, LLC offers a permanent, clear or color pigmented finish coating system for graffiti control and general maintenance applications. The GSS-10™ System is designed to allow a property owner to maintain a graffiti, dirt, and stain-free environment over the useful life; "no re-coating" for 25-30 years. Graffiti, dirt, and stains can be removed completely without leaving any evidence, no matter what presently known paint or graffiti materials are used, and without the need for special equipment or training. The GSS-10™ System can withstand unlimited graffiti removals using GSS-400 Erasol® without the need to re-apply the coating. The GSS-10™ System is designed to allow property owners a long-term and high-value solution for maintaining valuable property assets for many, many years. Whether protecting a new building or restoring an existing one, the GSS-10™ System provides the permanent answer. The GSS-10™ System is available in clear and pigmented versions with flat, semi-gloss, or gloss finishes. GSS 100 and 200 is a high-performance, permanent finish coating which provides years of high resistance to UV-degradation, stain, chemical, abrasion and other environmental influences. It also allows rainwater to remove dirt from the surface of the coatings, providing a "self-cleaning" effect on the protected structure.

PRODUCTS AVAILABLE FROM

GSS COATINGS, LLC

GSS-100 Clear Finish Coat

GSS-200 Pigmented Finish Coat

GSS-307 Base Coat

GSS-308 Sure Bond™

GSS-400 Erasol® Graffiti Remover

GSS-500 Aqua-lock™ Water Repellent

System Strengths

- SCAQMD Rule 1113 VOC Compliant
- 10 Year to 30 Year Limited Warranties available
- Permanent coating
- Easy graffiti removal
- Withstands unlimited removals
- General maintenance coating
- Pigmented GSS-200 (color match available)
- Comes in flat, (<5 on Gardner Gloss meter), semi-gloss, and gloss finishes.
- Vapor permeable
- Controls rainwater penetration
- Excellent water repellency
- May be applied to smooth surfaces
- Excellent UV stability and stain resistance
- Non-yellowing
- Non-chalking
- Non-whiting of blushing
- Excellent salt spray and chemical resistance
- Excellent abrasion and corrosion resistance

System Limitations

- Porous substrates and clear finish applications will require GSS-307 Base Coat to achieve a pinhole free surface and barrier coat
- Not recommended for below-grade applications.
- Not recommended for some forms of plastics.
- Will not prevent water penetration through structural cracks, or open joints.

Finish Coats

- GSS-100 Clear Flat
- GSS-101 Clear Semi-Gloss
- GSS-102 Clear Gloss
- GSS-200 Pigmented Flat
- GSS-201 Pigmented Semi-Gloss
- GSS-202 Pigmented Gloss

Substrate Applications

- Brick
- Concrete
- Stucco
- EIFS
- CMU
- Metal
- Painted Surfaces
- Bathroom Partitions
- FRP
- Wood

Smooth
Split Faced
Burnished
Fluted



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GSS-100 and GSS-200 Top Coat substrate coverage guide (per one gallon):
Coverage is based on one coat. GSS-100 Clear Version requires GSS-307 Clear Base Coat.

Substrate	Type	Use	GSS-100 Coverage Rates over a pinhole free surface	GSS-200 Coverage Rates over a pinhole free surface
Architectural Concrete Block	Honed	Yes*	100-150 sq. ft.	100-150 sq. ft.
	Smooth	Yes*		
	Ribbed	Yes*		
	Split-Faced	Yes*		
Concrete	Brick	Yes*	120-170 sq. ft.	120-170 sq. ft.
	Tile	Yes*		
	Precast Panels	Yes*		
	Cast-in-place	Yes*		
Fire Clay	Brick	Yes*	120-170 sq. ft.	120-170 sq. ft.
	Tile	Yes*		
	Terra Cotta	Yes*		
EIFS Stucco Plaster		Yes	140-175 sq. ft.	140-175 sq. ft.
		Yes		
		Yes		
Painted Substrates		Yes	160-200 sq. ft.	160-200 sq. ft.
Metal		Yes**	170-225 sq. ft.	170-225 sq. ft.

NOTES: Pinhole free substrate required for all applications requiring warranty. See GSS Application Guide

Always install a mock up prior to starting the production application to ensure proper performance and aesthetics.

GSS 307 Clear Base Coat is required to create a pinhole free surface on all necessary substrates.

*Aqualock or silane siloxane waterproofing agent required on brick and cementitious surfaces.

**Bare metal requires a prime coat



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See Application Guide for complete instructions.

Work-Site Preparation

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

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 and other contaminants that might prevent adhesion of coating. New concrete should be thoroughly cured 28 days before application. Avoid "hot" "not cured" stucco. pH levels are to be neutral, below 9-10, prior to application of all GSS Products. 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. Some specialized coatings should be applied in narrower temperature ranges.

General Application Instructions GSS-100 or 200 Top Coat (Application Guide provides complete instructions).

- 1:** (a) Prior to the application of the GSS-100 finish coat(s), a determination must be made as to the need of a primer and/or base coat. Natural substrates require GSS-307 Clear Base Coat. Pinhole free substrate required. Wait for Manufacturer's recommended re-coat time prior to moving to Step 2. Refer to GSS-307 Product Tech Data Sheet.
(b) Prior to the application of the GSS-200 pigmented top coat(s), a determination must be made as to the need of a primer and/or base coat. Wait for recommended Manufacturer's re-coat time prior to moving to Step 2.
- 2:** Once step 1 is completed, mix GSS finish coat Part A to ensure proper solution uniformity. Some solids in Part A may settle which need to be thoroughly mixed into a homogeneous mixture before the introduction of the Part B component.
- 3:** Pour contents of the Part B component into the container of Part A or other suitable container as instructed by Manufacturer. Mix components for 3 to 5 minutes at a slow steady pace until a homogeneous solution is achieved.
- 4:** Apply one coat of mixed solution in a crosshatch pattern. One wet coat utilizing a 50% overlap is considered one coat. This will eliminate flash lines and improve appearance. When spraying, keep the spray gun 10 to 12 inches from the substrate and the application pressures just high enough to create an efficient fan. A 517 tip is recommended. Back roll after spraying may be required. High pressure will result in an over-atomization of the product possibly having negative effects, a reduced trans-efficiency rate, and create unnecessary amounts of overspray. If conditions require, coating may be rolled on and then back rolled.
- 5:** After Step 4, if a second coat is necessary, allow coating to dry to the touch then apply second coat of finish coat.
- 6:** The GSS finish coat should be applied to achieve a final 3.5 mils - 4 mils dry (7.0 - 8.0 mils, wet) to achieve optimal performance.
- 7:** Do a test sample prior to application. The test sample will confirm appearance, compatibility, coverage, and color. A sign off and approval sheet must be completed prior to final application per Manufacturer's requirements.
- 8:** Allow GSS Finish coat to cure for 7 days prior to removal of graffiti.
- 9:** Some specialized coatings may require different application techniques. Please consult with Manufacturer.
- 10:** See GSS Official Application Guide for application details.



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Safety Information

GSS Coatings finish coats are VOC Compliant, solvent borne products and may cause symptoms typical with organic solvent exposures, and are combustible.

Read MSDS for precautionary instructions prior to use.

First Aid Information

Ingestion and Aspiration Hazard: If ingested, call a physician immediately. Do not induce vomiting or give anything by mouth. Only induce vomiting at the instruction 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 wash 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**

Equipment

Airless sprayer to apply GSS-100 and GSS-200 finish coat. Preferred tip size: 517. Use low pressure to create an efficient fan of material during application.

Roller rig with proper sized nap depending on substrate to be coated.

Pre-dampened roller.

Clean Up & Disposal

Clean tools and equipment immediately after use with MEK or acetone as allowed by local regulations.

Return unused products per Manufacturer's requirements. Dispose other materials and containers in accordance with local, state and federal regulations.

Dilution: Do not dilute GSS Coatings, LLC Top Coats. Refer to mixing instructions.



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Test Data Results and Performance Standards

Chemical Resistance	NE =No Effect●
MEK	NE after 5 days
Carboxylic Acid	NE after 5 days
Phosphoric Acid 75%	NE after 5 days
Hydrochloric Acid 37%	NE 4 hour blister
Sulfuric Acid 50%	NE after 5 days
Nitric Acid (NIT) 20%	NE 68 hour blister
IPA	NE
Toluene	NE
Acetic Acid 100%	NE
Sodium Hydroxide 50%	NE
Aniline	NE
Gasoline	NE
Skydrol	NE
Motor Oil	NE
Acid Rain	NE
MEK double rubs	500+

Perm Rate 6.99
Rust (ASTM D-610-85) Less than .03% degradation
Abrasion Test (ASTM D968)
 10 Liters of sand to abrade 1 mil. Dry coating
Salt Spray Test
 ASTM B117 and ASTM D714 (8,000 Hours Minimum)
Hardness Test ASTM 530 (former standard)
VOC Test ASTM D3960
Tensile Strength and Elongation ASTM D412
Pass 3/8 Inch Mandral ASTM D522
Vapor Transmission ASTM E96 Vapor is transmitted.
Adhesion Test ASTM D3359-90
Minimum 120 cleaning cycles over same area without measurable coating deterioration
Non-yellowing and free of waxes and urethanes
Decreases dirt pick-up on substrate
Life Expectancy 30 to 35 Years

Technical Data

GSS-100 Clear Form:	GSS-100, 101, 102 Clear Liquid
Specific Gravity:	1.0868
WT/GAL:	7.68
Total Solids:	44.30%
GSS-200 Pigmented Specific Gravity:	GSS-200, 201, 202 1.0868
WT/GAL:	9.46
Total Solids:	65%
GSS-100 and -200 VOC:	<85.00 g/L
pH:	7 - 8.5
Pot Life:	1 hour 40 minutes.
Shelf Life:	2 years in a tightly sealed unopened container.

●Meets SCAQMD Rule 1113 Requirements.



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Graffiti Removal

Use GSS-400 Erasol® to remove graffiti. See Product Tech Data Sheet for instructions.

Successful Application Tips

- Follow safety procedures
- Prepare surfaces properly
- Stucco manufacturers recommend pH Levels below 9-10 on brown coats before applying finish coats or paints.
- Be aware of environmental conditions
- Use clean equipment, no cross contamination
- Follow mixing and application instructions
- Choose and use proper base coat
- Be aware of wind conditions and surrounding vehicles, homes, and businesses.
- Clean up, store, and dispose of products and equipment properly.

Warranty

10 year, 20 year, and 30 year performance warranties available for GSS-10™ System. Performance warranty guarantees unlimited removals, no ghosting, staining, or shadowing, and provides material, labor, and surface restoration if it ever fails once warranty is issued in writing. Contact GSS Coatings, LLC for full details and requirements for issuance of warranty. Until requirements for warranty are met, GSS makes no express or implied warranties of any kind or nature. In no event shall GSS Coatings, LLC be liable for any special, consequential or incidental damages as a result of the purchase or use of this product.

Effective January 1, 2018



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