SEWERGARD® 210GLN - GLAZE

PHYSICAL PROPERTIES

Abrasion resistance @ 28 days	
(ASTM D-4060, Taber Abraser CS-17 Wheel, 1,000 gram load, 1,000 cycles)	44.9mg average weight loss
Application time (ASTM C-308 modified)	
Working time at 70ºF	30 minutes
Bond strength to concrete (ASTM D 7234)	Concrete failure
Components	
Compressive Strength (ASTM D695)	13,500 psi (949.04 kg/cm^2)
Elongation @ 28 days (ASTM D638)	12 %
Flexural Strength (ASTM D790) @ 28 days	16,900 psi (1188 kg/cm^2)
Maximum service temperature (Dry)	150ºF (65ºC)
Modulus of elasticity (ASTM D790)	5.6 x 10^5 psi (3.9 x 10^4 kg/cm^2)
Tensile strength (ASTM D 638)	3,700 psi (260.10 kg/cm^2)
Thickness	15 - 40$^+$ mils

*** All values measured at 7 days unless otherwise noted.**

Physical properties were determined on specimens prepared under laboratory conditions using applicable ASTM procedures. Actual field conditions may vary and yield different results; therefore, data are subject to reasonable deviation.

Sauereisen SewerGard® Glaze 210GL is a protective coating specifically formulated for municipal wastewater environments. SewerGard® 210GL Glaze provides a chemical-resistant barrier for concrete and steel. It may also serve as a sealing topcoat over other Sauereisen restorative materials and protective linings.

As a 100% solids epoxy polymer, SewerGard® Glaze 210GL is used to protect infrastructure throughout the wastewater industry. Wherever corrosive conditions exist, 210GL may be used as a stand-alone, economical coating or as an extra measure of protection over Restokrete resurfacing products. Applications range from manholes and lift stations within collection systems to tankage, structural steel and secondary containment at treatment plants.

Installation of SewerGard® Glaze is easily completed using airless spray equipment, or by brush and roller.

CHARACTERISTICS

- Resistant to hydrogen sulfide, sulfuric acid, MIC and treatment chemicals
- Suitable as a 15 - 40 mil or greater coating
- Smooth surface aids washdowns and prevents debris accumulation
- Moisture tolerant to accommodate damp substrates
- 100% solids = Zero VOC's
- "Green", environmentally friendly coating system
- User friendly application by airless spray equipment or brush and roller

AREA

Temperature of Working Area

For optimum conditions, maintain a temperature of 60º-85ºF on air, substrate, Resin and Hardener components during mixing, application and cure.

The monolithic components should be maintained at 65ºF to 80ºF for 48 hours prior to beginning work. At temperatures below 60ºF, the application becomes more difficult, and curing is retarded. Above 80ºF, the material working time decreases.

Application in direct sunlight and rising surface temperature may result in blistering of the materials due to expansion of entrapped air (out gassing) or moisture in the substrate.

If temperatures are rising, it may be necessary to postpone the application and apply during cooler hours.

Surface Preparation

Metal - Abrasive blast to a nominal 2.5 mil profile employing SSPC-SP5 White Metal Blast for immersion and SSPC- SP10 for other service conditions. An SSPC-SP6 Commercial Blast may be suitable for mildly corrosive atmospheric exposures. All welds must be continuous, free of flux and have a smooth rounded radius without any sharp edges.

Concrete - Refer to SSPC-SP13/NACE 6 "Surface Preparation of Concrete" for detailed guidelines.

New Concrete - All structures must have the necessary strength to withstand imposed loads during normal use and operation. Surface should be floated free of ridges or depressions, and all voids filled with a Sauereisen RestoKrete® Substrate Resurfacer such as F-121, No. 208 RestoKrete®, and No. 209 Epoxy Filler Compound.

The choice of underlayment will depend on the severity of the voids to be filled.

Surfaces should be made free of oil, grease, standing water, and other contaminants that may inhibit bond. This can be achieved by abrasive blasting or high-pressure water blasting the concrete to remove laitance and obtain a uniform surface texture exposing fine aggregate and resembling a sandpaper texture with a minimum CSP 4-5 per ICRI 310.2.

Old Concrete - Concrete must have the necessary strength to withstand imposed loads during normal use and operation. Mechanical methods should be utilized to remove existing protective coatings, and deteriorated concrete. Surfaces should be made free of oil, grease, standing water, and other contaminants that may inhibit bond. This can be achieved by abrasive blasting or high pressure (minimum 5,000 psi) water blasting, resulting in a minimum CSP of 4-5 per ICRI 310.2.

Restore the substrate as needed to provide an appropriate bonding surface. Stop active water leaks and repair cracks prior to the coating installation as well.

MIXING

For application by airless spray or brush and roller

Packaging consists of premeasured unitized containers of Hardener Part A and Resin Part B. Remix Part A and B before combining. Completely empty contents of Hardener Part A into Resin Part B. Using a slow speed 1/2 inch drill motor affixed with a "Jiffy" type blade, mix three to five minutes until thoroughly blended.

Mix only complete batches. Material which has begun to set must be discarded. Do not add any solvent, additive, or adulterant to any component or mixed material.

INSTALLATION

Prior to application of Sewer Gard® 210GL, inspect the substrate for voids, bubbles, or defects that may result in blistering or pinholes in the topcoat. Repair with Sauereisen RestoKrete® Substrate Resurfacer No. F-121 or Filler Compound No. 209 Fast Set to ensure a sealed surface.

Roller application **-** Material should be delivered to finishers immediately after mixing. Do not let material remain in the mixing vessel. If application is for horizontal areas, spread the material with a squeegee to the desired thickness. To improve the surface texture, lightly back-roll the material with a short nap adhesive roller with a nondegradable core. For vertical applications, material shall be lightly back rolled to the desired thickness. All finishing and back rolling must be completed within 30 minutes from mixing.

Spray application **-** SewerGard® 210GL may be spray applied at a thickness of approximately 15-40 mils per coat or greater depending on the spray equipment. Installation by airless spray should be done with a 50% overlap in a "cross hatch" pattern to reduce the possibility of pinholes and to assure complete cover- age. Recoat window is between 12 -24 hours at 70ºF.

After No. 210GL has sufficiently cured, a holiday detector should be utilized to ensure a continuous pinhole-free lining. Consult a Sauereisen representative for details.

Any SewerGard® No. 210 System may be top coated with a coat of No.210GL up to 24 hours after application. Consult Sauereisen for recommendations specific to your application.

The following equipment is typically used for spray application:

Airless Spray Pumps - SewerGard® Glaze may be sprayed with a minimum 45:1 piston-primed, airless pump such as the model formerly manufactured by Graco. Alternative equipment such as the Graco 56:1 King Piston Primed Airless, Model 236-477 is also suitable.

The current specification is the Graco Xtreme Sprayer X60 - MDL#X60-DH4. Remove all filters including the filter from surge tank.

Gun tip -Use Tip Housing Part No. XHD-001 with Graco Reversa Tips MDL No. XHD with orifices of 0.025 to 0.031 inch tip works best. Larger alternative tip sizes may be suitable as well. Never use tips that contain a diffuser pin.

Material hose - 6' whip end, 3/8" i.d.; working pressure 5,000 psi, 16,000 psi burst.

Material hose - 0-25' overall, 1/2" i.d.; working pressure 4,000 psi, 16,000 psi burst.

Material hose - 25-75' overall, 3/4" i.d.; working pressure 4,000 psi, 12,000 psi burst.

Air compressor - 180 ft^3 per minute at 100 psi, minimum.

Air hose from compressor: 3/4" to 1" i.d. with 100' maximum length to mastic pump.

Plural Component Spray Applications:

Given the need for a variable ratio pump, Sauereisen recommends using SewerGard® 210XHB for plural component applications.

COVERAGE

No. 210GL: 80 ft^2 per gallon at 20 mils

Coverage is theoretical and will vary depending upon surface conditions, porosity, application techniques and specific project conditions.

SETTING/CURING

Do not allow water or chemicals on the material surface for a minimum of 17 hours. For harsh chemical or physical environments, cure a minimum of 72 hours prior to exposure.

PACKAGING

Sauereisen SewerGard® No. 210GL is packaged in a 5-Gallon unit.

Unit Size

5 - *Gallon Unit: (F)**

Part A - Hardener is packaged in a 2-1/2 Gallon Metal Pail. 10.1 lbs., 1.22 Gallon

Part B – Resin is packaged in a 6-gallon plastic pail. 41.5 lbs., 3.78 Gallons

·Containers are filled by weight, not volume. Container size does not indicate volume of contents.

Note: Part A and Part B can be mixed together in the 6-gallon plastic pail.

CLEAN-UP

All equipment should be cleaned with MEK before material cures.

SHELF LIFE

Sauereisen SewerGard® Glaze No.210GL has a shelf life of one year. Store in unopened, tightly sealed containers in a dry location at 70°F. Avoid freezing. If there is doubt as to the quality of the materials, consult a Sauereisen representative.

CAUTION

Consult Safety Data Sheets and container label Caution Statements for hazards in handling these materials.

WARRANTY

We warrant that our goods will conform to the description contained in the order, and that we have good title to all goods sold. WE GIVE NO WARRANTY, WHETHER OF MERCHANTABILITY, FITNESS FOR PURPOSE OR OTHERWISE, EXPRESS OR IMPLIED, OTHER THAN AS EXPRESSLY SET FORTH HEREIN. We are glad to offer suggestions or to refer you to customers using Sauereisen cements and compounds for a similar application. Users shall determine the suitability of the product for intended application before using, and users assume all risk and liability whatsoever in connection therewith regardless of any suggestions as to application or construction. In no event shall we be liable hereunder or otherwise for incidental or consequential damages. Our liability and your exclusive remedy hereunder or otherwise, in law or in equity, shall be expressly limited to our replacement of nonconforming goods at our factory or, at our sole option, to repayment of the purchase price of nonconforming goods.

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