SEWERGARD® 210T - TROWELABLE

PHYSICAL PROPERTIES

Components	3 parts
Bond strength to concrete (ASTM D7234)	Concrete failure
Coefficient of thermal expansion (ASTM C531)	3.5 x 10^{-5} /F° (1.9 x 10^{-5}/C°)
Compressive strength (ASTM D695) @ 28 days	10,000 psi (703 kg/cm^2)
Density	113 pcf (1.81 gm/cm^3)
Flexural strength (ASTM C580)	4,900 psi (344.5 kg/cm^2)
Maximum service temperature	150°F (65°C)
Modulus of elasticity (ASTM C580)	2.75 x 10^5 psi (1.9 x 10^4 kg/cm^2)
Moisture absorption (ASTM D570-95)	< 0.04%
Permeability (ASTM E96)	3.58 x 10^{-1} Perm-inch (5.2 x 10^{-10} g/m·s·Pa)
Tensile strength (ASTM C307)	2,000 psi (140.6 kg/cm^2)
Thickness	1/8 inch (3.175 mm)

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® Trowelable No. 210T is an aggregate-filled, 100% solids epoxy material. This lining system is specifically designed to protect concrete surfaces of municipal wastewater structures in treatment and collection systems from chemical attack and physical abuse. No. 210T's non-sag application properties permit economical repair and protection of vertical, horizontal and overhead surfaces of both new and rehabilitated existing substrates.

CHARACTERISTICS

- Zero VOC's – 100% Solids
- Resistant to corrosive conditions common to the municipal wastewater industry
- Suitable for application over damp or dry concrete surfaces
- Trowelable non-sag consistency ensures ease of application on vertical and overhead surfaces
- Does not require a primer Prohibits water infiltration
- Available in fast set formulation (210FS-Fast Set)

When cured, No. 210T provides an impermeable, high strength, corrosion-resistant lining for collection and treatment structures subject to infiltration and attack from hydrogen sulfide and acid generated by microbiological sources.

AREA

Temperature of Working Area

Maintain a temperature of 60°-85°F on air, substrate, Liquid, Hardener, and Powder components during mixing, application, and cure.

The monolithic components should be maintained at 65°F to 80°F for 48 hours prior to beginning work.

At temperatures below 60°F, the application becomes more difficult and curing is retarded. Above 80°F, 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. Concrete surfaces that have been in direct sunlight must be shaded for 24 hours prior to application and remain shaded until the initial set has taken place.

In rising temperatures, it may be necessary to postpone the application or apply during cooler hours.

Surface Preparation

Surfaces should be made free of oil, grease, water, and other contaminants that may inhibit bond. This can be achieved by abrasive blasting or high-pressure water blasting (minimum 5,000 psi).

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

New Concrete - All structures must be properly designed and capable of withstanding imposed loads. Abrasive blast, or high-pressure water blast concrete to remove laitance and obtain a uniform surface texture (minimum CSP 4 per ICRI 310.2). After surface preparation, voids left in concrete surface must be filled with a Sauereisen RestoKrete® resurfacing product.

Old Concrete - Concrete must be dry, firm and structurally sound as specified by the architect/engineer. Mechanical methods should be utilized to remove old protective coatings and attacked or deteriorated concrete. Abrasive blast or high- pressure water blast concrete to remove such, along with any remaining laitance and obtain a uniform, sound substrate with a minimum CSP 4 surface profile per ICRI 310.2.

Substrate surfaces requiring repairs in excess of 1/8-inch depth should be resurfaced with Sauereisen RestoKrete™ resurfacers to ensure proper rehabilitation of the substrate.

Brick - Abrasive blast or high-pressure water blast all foreign particles and attacked or unsound mortar from the joints. Loose brickwork or open joints should be regrouted with appropriate Sauereisen mortar to ensure structural integrity.

All active hydrostatic leaks must be stopped with Sauereisen materials such as InstaPlug No. F-180™ or Hydroactive Urethane Grout No. F-370 prior to SewerGard® application.

If abrasive blasting or high-pressure water blasting is used as the method of surface preparation, all sand and/or debris must be removed by thoroughly vacuuming the area. If surface does not have desired conditions, repeat surface preparation procedure.

No. 210T may be applied over damp surfaces that are free of standing water; best results are achieved with dry surfaces.

APPLICATION

Mixing

SewerGard® No. 210T is packaged in pre-measured units of Powder, Liquid, and Hardener components. Mixing should be done mechanically with a "Jiffy" mixer blade chucked into a drill motor. The mixing equipment must be clean and free of Portland cement or other contaminants.

Remix both Liquid and Hardener prior to combining components. Empty contents of the Liquid into a clean, dry mixing container. Empty contents of Hardener into Liquid and mix thoroughly until blended for at least one minute. Add Powder component gradually while mixing to a uniform consistency.

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

Remove the entire batch from the mixer when mixing is completed to prevent build-up in the equipment. While pouring one batch, another should be mixed to eliminate delays and to permit continuous operation.

Installation

SewerGard® No. 210T is applied by trowel at a minimum 1/8-inch thickness. Theoretical coverage is 44 ft^2 per unit at 1/8-inch thick. Actual coverage may vary, depending upon jobsite conditions. Screed bars may be used to control thickness on large surface areas.

To provide a pinhole-free surface and remove trowel marks in No. 210T, a short-nap ~~mohair~~ paint roller slightly dampened with water may be used. Excess water should be shaken off prior to back rolling.

After No. 210T has achieved a dry, hardened surface, a holiday detector should be utilized to ensure a continuous pinhole-free lining. A Sauereisen SewerGard® Patch Kit may be used to conveniently repair any pinholes.

SewerGard® No. 210T may be top coated with No. 210GL or 210X within 24 hours.

For details regarding construction joints, protrusions or penetrations through concrete, consult Sauereisen for specific recommendations and construction details.

COVERAGE

No. 210T - 44 ft^2 per unit at 1/8-inch.

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

SETTING/CURING

SewerGard® No. 210T may be exposed to a chemical environment in approximately 17 hours and can resist standing water or sewage shortly thereafter. Aggressive or turbulent flow that may inhibit film formation or displace materials while curing will result in poor bond to the substrate. Consult Sauereisen for parameters specific to your application.

Working Time:

45-50 minutes @ 70^{o} F

Re-Coat Time:

12-24 hours @ 70^{0}F

Maximum Re-Coat Time:

24 hours at 70^{0}F

Chemical Exposure:

17 hours @ 70^{0}F

PACKAGING

SewerGard® Trowelable No. 210T is packaged in a premeasured unit:

Part A Hardener:
3.2 lbs. in a 1-gal. can

Part B Liquid:
10.1 lbs. in a 2-gal. bucket

Part C Powder:
40 lbs. in a paper or plastic bag

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

No. 21OT-Patch Kit:
Available upon request

0.19- p o u n d unit

Part A Hardener: 0.07 lbs. (0.1 Fluid ounce), packaged in a metal pint can

Part B Resin: 0.23 lbs. (3.1 - 3.2 Fluid ounce), packaged in a metal pint can

Part C Powder: 0.9 lbs.
packaged in a clear plastic baggie

Note: All 3 Patch Kit components are packaged together in a metal gallon can. The can be used as a mixing container.

COVERAGE

1 sq. ft. @125 mils (1/8-inch) per unit

CLEAN-UP

All equipment should be cleaned with MEK before material cures. If removal is required after cure consult Sauereisen for specific recommendation.

SHELF LIFE

Sauereisen SewerGard® No. 210T products have a shelf life of one (1) year, when stored in unopened, tightly sealed containers in a dry location at 70°F. Avoid freezing. If there is a doubt as to the quality of the materials, consult Sauereisen.

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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