



RESTOKRETE® EPOXY MODIFIED CEMENT No. 208

Sauereisen RestoKrete® Epoxy Modified Cement No. 208 is a substrate repair material designed to fill voids, air pockets, and irregularities in concrete and brick substrates. As an epoxy-modified portland cement, it is used for resurfacing applications requiring tenacious bonding properties.

CHARACTERISTICS

- o Pumpable and sprayable through straight shot nozzle
- o Trowelable
- o Can be applied by spincast spray nozzle
- o Moisture tolerant
- o Designed to be top-coated with most Sauereisen systems including ConoFlex No. 381

AREA PREPARATION

Temperature of Working Area

For optimum conditions, the substrate should be maintained at 60°F to 85°F for 48 hours prior to beginning work.

RestoKrete® 208 may be applied at temperatures below 60°F; however, curing is slowed.

Above 85°F, the material working time decreases. It is recommended that the material components be stored in a cooler area prior to mixing.

Surface Preparation

Surfaces should be made free of oil, grease, water, and other contaminants that may inhibit bond. Concrete must be firm and structurally sound as specified by the architect/engineer.

Hydroblasting should be utilized to remove laitance, contaminants, or loose particles and to produce a clean, sound surface. All standing surface water should be removed prior to applying RestoKrete® No. 208.

PHYSICAL PROPERTIES

(At seven days, unless noted otherwise)

Application Times	
Recoat Window with SewerGard Systems	5 hours to 72 hours
Working Time	30 - 45 Minutes
Bond Strength to Concrete (ASTM 7234)	Concrete Failure
Bond strength by Slant Shear (ASTM C-882)	1,027 psi (72.19 kg/cm ²)
Components	3 Parts
Density - as mixed	113.0 pcf (1.81 g/cm ³)
Tensile strength (ASTM C-307)	830 psi (58.34 kg/cm ²)

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.

APPLICATION

Mixing

Mixing should be done with a slow speed 1/2 inch drill motor with a "Jiffy" type mixing blade to obtain a uniform consistency. The mixing equipment must be clean and free of contaminants.

Completely empty contents of Resin Part B into Hardener Part A container. Mix thoroughly for 2-3 minutes. Add Powder (Part C) and continue mixing for 2-3 additional minutes or until thoroughly blended. Mix only complete batches.

* For a stiffer mix consistency, up to 15% of Part C Powder may be added to the mix. See "PACKAGING" section on page 2 for quantities to be added.

Material which has begun to set must be discarded. Do not try to retemper the material.

Installation

By Trowel Method:

Sauereisen RestoKrete® No. 208 can be applied by trowel at a thickness up to 1/2 inch.

To maximize working time, spread mixed No. 208 onto a plasterer's hawk upon completion of the mixing. Apply No. 208 to concrete with a smooth plasterer's rubber float or steel trowel.

After application, excess material may be removed by using the edge of the float or trowel.

Sauereisen No. 208 may be used as a skim coat to provide a uniform surface over new concrete. In these applications, the number of surface voids to be filled in the concrete will vary. For estimating purposes, a regular unit of No. 208 will cover approximately 49 ft² @ 1/16 inch thickness. No. 208 large unit will cover approximately 99 ft² @ 1/16 inch thickness when used as a skim coat.

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

APPLICATION

By Spray Method

When using a mobile rotor-stator pump, apply a uniform coat at a thickness of 1/16 to 1/4 inch. The following equipment is typical for rotary sprayed applications of substrate resurfacing materials:

Rotor/Stator Pump outfitted with an appropriate spincaster nozzle or a straight shot nozzle for rotary spray applications.

Moisture Separator for collecting condensation within air lines.

Material Hose of 1" to 1-1/4 inch diameter and 15 feet length with internal expanded male ends and cam locks, with capacity of 300 psi required.

Air Hose of 1/2 inch diameter and 50 feet length from compressor to wet spray nozzle. Specify 200 psi and 2 lug Chicago fittings.

Air Hose of 1 inch diameter and 15 feet length from Moisture Separator to Spinning Nozzle Assembly. Specify 200 psi capacity with one end Chicago fitting and one end brass female swivel.

Cam-Lock Couplings of 1 inch and 3/4 inch diameter (2 sets each).

Miscellaneous Parts

- * 3/16 - 1/4 inch spray tips
- * Tip retainer nut
- * Pole gun assembly

Other Outside Source Equipment

- * 180 cfm Air Compressor
- * 5500 watt Generator with 220 volt single phase

FINISHING

If Sauereisen RestoKrete® No. 208 is applied by trowel or spray, finishing after material placement is optional. A broom or brush finish is not required.

SETTING/CURING

Proper curing of No. 208 is critical to the serviceability of the completed structure. No. 208 may be top coated after it's initial set in 5 hours at 70°F. Final set is achieved at 48 hours at 70°F.

CLEAN-UP

All equipment should be cleaned by scrubbing with a stiff brush and water at the end of each working period or when build-up becomes pronounced. A mild abrasive should be recirculated through the pump and hoses.

CAUTION

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

SHELF LIFE

RestoKrete® No. 208 has a shelf life of one (1) year when stored unopened in a dry location at 70°F. Avoid freezing. If there is a doubt as to the quality of the materials, consult a Sauereisen representative.

COVERAGE

When mixed at the proper ratio of powder, liquid and hardener, a unit of No. 208 will yield the following:

Regular Units	
@ 1/8 inch thickness	23.88 ft ² per Unit
@ 1/4 inch thickness	11.94 ft ² per Unit
@ 1/2 inch thickness	5.97 ft ² per Unit

Large Units	
@1/8 inch thickness	47.86 ft ² per Unit
@1/4 inch thickness	23.93 ft ² per Unit
@1/2 inch thickness	11.97 ft ² per Unit

PACKAGING

RestoKrete® No. 208 is packaged in a Regular Unit (28.11 lbs.) and a Large Unit (56.25 lbs.)

Regular Units 28.11 pounds

Part A- Hardener 4.72 lbs(0.5394 gal)
packaged in a 3.5 gallon plastic pail

Part B-Resin 3.39 lbs (0.3568 gal)
packaged in a 1-gallon metal can

Part C-Powder 20 lbs
packaged in a paper bag

A Regular Unit when mixed is 1.86 Gallon (7.04L)

15% Extra Part C Powder = 3 lbs or 1 qt.

Large Units 56.25 pounds

Part A- Hardener 9.45 lbs (1.08 gal)
packaged in a 5 gallon plastic pail

Part B-Resin 6.79 lbs (0.7147 gal)
packaged in a 1-gallon metal can

Part C-Powder 40 lbs
packaged in a paper bag

A Large Unit when mixed is 3.73 Gallons (14.11L)

15% Extra Part C Powder = 6-lbs or 1/2 gallon

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- o **Distributors and agents in major cities throughout the world. Consult manufacturer for locations.**
- o **Information concerning government safety regulations available upon request.**
- o **Sauereisen also produces inorganic compounds for assembling, sealing, electrically insulating and grouting.**

160 Gamma Drive
Pittsburgh, PA 15238-2989 USA
Phone 412.963.0303 Fax 412.963.7620
www.sauereisen.com

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