



RESTOKRETE® FILLER COMPOUND NO. 209 & 209FS

PHYSICAL PROPERTIES	No. 209FS	No. 209
Application times		
Working time	5 minutes	15 minutes
Minimum cure time prior to topcoating	1 hour	3 hours
Components		3 parts
Bond strength to concrete (ASTM D-4541)		Concrete failure
Compressive strength		10,000 psi (703.0 kg/cm ²)
Density (ASTM C-905)		87.2 pcf (1.40 gm/cm ³)
Flexural strength (ASTM C-580)		4,000 psi (281.2 kg/cm ²)
Maximum service temperature		150°F (65°C)
Modulus of elasticity (ASTM C-580)		5.2 x 10 ⁴ psi (3.7 x 10 ³ kg/cm ²)
Moisture absorption (ASTM C-413)		<.025 %
Shrinkage (ASTM C-531)		<0.2 %
Tensile strength (ASTM C-307)		2,200 psi (154.7 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 is subject to reasonable deviation.

Sauereisen RestoKrete® Filler Compound No. 209 is an epoxy formulation specifically designed to fill voids, irregularities, and air pockets in concrete and steel. It is used for resurfacing applications requiring tenacious bonding properties. The filler compound provides a smooth surface for the application of epoxy monolithics. No. 209 is not compatible with vinyl ester topcoats. The No. 209FS is a faster setting formulation.

CHARACTERISTICS

- Fills and seals irregularities in concrete, steel and brick substrates.
- Suitable for application over damp or dry concrete surfaces.
- Easy to apply.
- Quick set time.

AREA PREPARATION

Temperature of Working Area

For optimal conditions, maintain a temperature of 60°-85°F on air, substrate, Hardener, Liquid and Powder components during mixing, application, and cure. The material components should be maintained at 65°F to 85°F for 48 hours prior to use.

RestoKrete® 209 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.

Shading the substrate and using ice water to cool mixing equipment is not uncommon. In extreme temperatures it may be necessary to postpone the application or apply during cooler hours.

Surface Preparation

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

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. All welds must be continuous, free of flux and have a smooth rounded radius without any sharp edges.

New Concrete - Surfaces should be made free of oil, grease, water, and other contaminants that may inhibit bond. This can be achieved by chemical cleaning. Abrasive blast, high-pressure water blast, or acid etch concrete to remove laitance and obtain uniform surface texture.

Old Concrete - Surfaces should be made free of oil, grease, water and other contaminants that may inhibit bond. This can be achieved by chemical cleaning. Abrasive blast or high-pressure water blast to remove all foreign particles and attacked or unsound concrete and obtain uniform sound substrate. Concrete must be firm and structurally sound as specified by the architect/engineer.

Brick - Surfaces should be made free of oil, grease, water, and other contaminants that may inhibit bond. This can be achieved by chemical cleaning. Abrasive blast or high-pressure water blast all foreign particles and attacked or unsound mortar from the joints. Loose brickwork should be re-grouted with No. 209. All active hydrostatic leaks must be stopped with Sauereisen InstaPlug™ No. F-180 prior to No. 209 application.

If chemical cleaning is utilized to remove contaminants, substrate must be neutralized. If abrasive 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 with an industrial vacuum cleaner. If surface does not have desired conditions, repeat surface preparation procedure.

APPLICATION

Mixing

Remix Hardener (Part A) by shaking the container. Remix contents of the Liquid component (Part B) for a minimum of 2 minutes with a slow speed paddle or "Jiffy" mixer. Combine contents of Hardener to Liquid and mix for a minimum of 3 minutes. Add Powder (Part C) and continue mixing until thoroughly blended. Mix only complete batches.

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

Installation

To maximize working time, spread mixed RestoKrete® No. 209 onto a plasterer's hawk upon completion of the mixing. Apply No. 209 to concrete with a smooth plasterer's rubber float or steel trowel. After application, excess material must be removed by using the edge of the float, trowel, or a squeegee.

COVERAGE

RestoKrete® No. 209 Regular Unit

680 ft² per unit at 1 mil thick.

No. 209 Large Unit

3,876 ft² per unit at 1 mil thick.

No. 209FS

136 ft² per unit at 1 mil thick.

Sauereisen RestoKrete® No. 209 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.

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

PACKAGING

No. 209(Regular Unit)-5 pound unit

Part A-Hardener 0.70 lbs. (0.083 gal)
packaged in a metal gallon can
Part B-Resin 2.10 lbs. (0.223 gal)
packaged in a metal quart can
Part C-Powder 2.20 lbs.
packaged in a clear plastic baggie

Note: All 3 components can be mixed together in the gallon can

A 209 Regular Unit when mixed is .42
Gallon (1.58L)

No. 209 (Large Unit) - 28.5 lb. unit

Part A-Hardener 4.0 lbs. (0.473 gal)
packaged in a metal gallon can
Part B-Resin 12.0 lbs. (1.29 gal)
packaged in a plastic 5-gallon pail
Part C-Powder 12.5 lbs.
packaged in a brown-plastic lined bag

Note: All 3 components can be mixed together in the 5-gallon plastic pail

A 209 Large Unit when mixed is 2.37
Gallon, (8.97L)

No. 209FS 1.1 pound unit

Part A-Hardener 0.13 lbs. (0.015 gal)
packaged in a metal pint can
Part B-Resin 0.5 lbs. (0.056 gal)
packaged in a metal pint can
Part C-Powder 0.5 lbs.
packaged in a clear plastic baggie

Note: All 3 Fast Set components are packaged together in a metal gallon can for a mixing container.

A Fast-Set Unit when mixed together is
0.10 Gallon, (0.37L)

SETTING/CURING

Filler Compound No. 209

Sauereisen RestoKrete® No. 209 has a working time of approximately twenty minutes. The material takes an initial set in roughly three hours at 65°F. This minimum cure time of three hours should elapse prior to topcoating.

Please consult Sauereisen's Technical Service Department prior to any recoat applications exceeding 72 hours. Generally, No. 209 may be recoated with a SewerGard® system up to 3 days later when the surface temperature is maintained at 65°F or below. In all cases, the surface must be free from any contaminants including amine blush.

Filler Compound No. 209FS

No. 209FS (Fast Set) has a working time of approximately five minutes at 70°F. The material takes an initial set in one hour. No. 209FS can be topcoated with a SewerGard® system after one hour.

The maximum duration for topcoating RestoKrete® No. 209FS should not exceed 36 hours when the surface is maintained at 70°F. For temperatures below 70°F, working time and set time are lengthened. Please consult Sauereisen's Technical Service Department prior to any recoat application exceeding 24 hours

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 RestoKrete® Filler Compound No. 209 and No. 209FS have a shelf life of one 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 a Sauereisen representative.

CAUTION

Consult Material 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 non-conforming goods at our factory or, at our sole option, to repayment of the purchase price of non-conforming goods.

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

LEGAL NOTICE

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