

PHYSICAL PROPERTIES

Adhesion Values: (ASTM D4541)	
White Blasted Steel (SSPC-SP10/NACE 2)	>3000 psi
Concrete - Dry	Concrete failure
Application time	
Working time at 75°F	30 - 45 minutes
Tack free at 75°F	9 hours
Components	2 parts
Hardness Shore D (ASTM 2240-86)	76
Tensile Strength (ASTM D-638-86)	4,100 psi
Percent Solids, by Volume	99.1%
Volatile Organic Compounds (VOCs)	8.56 g/L

Sauereisen ConoPrime No. 502 is a two-part epoxy primer to be used in conjunction with the Sauereisen ConoFlex No. 381. Recommended for use on concrete and various substrate types. Formulated to provide a chemical bond with ConoFlex Urethane No. 381.

ConoPrime No. 502 is specifically formulated to easily penetrate concrete substrates. It is recommended to ensure maximum adhesion where conventional primers may not penetrate.

This primer is an integral part of the lining in that it helps seal porous substrates and promotes adhesion of the protective material. No. 502 helps reduce off-gassing from concrete. It offers easy application properties to reduce total down time.

CHARACTERISTICS

- Promotes tenacious adhesion of Sauereisen No. 381 and No. 309
- Easy to apply - spray, brush or roll
- High bond strength
- Excellent moisture tolerance

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.

AREA PREPARATION

Temperature of Working Area

Maintain a temperature of 50°-90°F on air, substrate, Liquid, and Hardener components during mixing, application, and cure for optimum results. The material components should be maintained at 50°F to 80°F for 48 hours prior to beginning work. Ambient temperature must be at least 5°F above dew point.

Application in direct sunlight and rising surface temperatures may result in blistering of materials due to expansion of entrapped air or moisture in the substrate. Concrete that has been in direct sunlight must be shaded 24 hours prior to application and remain shaded until after the initial set of the topcoat. When the surface temperatures are rising, it may be necessary to postpone the application or apply during declining temperatures.

Surface Preparation

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. After ConoPrime No. 502 is applied, the surfaces should be floated with Sauereisen Urethane Filler Compound No. 309 to fill all voids and depressions.

Substrates must be free of oil, grease, and other contaminants that may inhibit bond. This can be achieved by chemical cleaning. Abrasive blast, or high-pressure water blast to remove laitance and to obtain a uniform surface texture exposing fine aggregate resembling coarse sandpaper.

Old Concrete - Concrete must be dry, firm and must have the necessary strength to withstand imposed loads during normal use and operation.

Surfaces must be free of oil, grease, and other contaminants that may inhibit bond. This can be achieved by chemical cleaning. Mechanical methods should be utilized to remove laitance, old paints, protective coatings, and attacked or deteriorated concrete.

For concrete substrates, abrasive blast or high-pressure water blast to obtain a clean, uniform, and sound substrate. All structural cracks should be repaired. All slopes should be reestablished.

Brick - Surfaces must be free of oil, grease, 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 regrouted with appropriate Sauereisen mortar to ensure structural integrity. Mortar joints should be repointed to be flush with the face of the masonry units.

When chemical cleaning, 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 surfaces do not meet desired conditions, repeat surface preparation procedures.

APPLICATION

Mixing

Premix the Part A and Part B separately before combining. Primer is packaged in premeasured containers consisting of Hardener Part A, and Resin Part B, which must be mixed together before use.

Completely empty contents of Hardener Part A into Resin Part B container. Using a slow speed 1/2 inch drill motor with a "Jiffy" type blade, mix thoroughly for three minutes until blended to uniform consistency. Primer is ready for use immediately after mixing.

Installation

Apply primer to surface by spray application or by hand using a long-haired nap adhesive roller with a nondetachable core, or nylon bristle brush.

Prior to application of a Sauereisen topcoat, inspect the primed surface for voids, bubbles, or defects that may result in blistering or pinholes in the top coat. Repair with Sauereisen Urethane Filler Compound No. 309.

COVERAGE

No. 502 Coverage per gallon

Concrete/Masonry 200 ft² @ 8mils

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

SETTING/CURING

Primer must be allowed to cure at least 9 hours but not more than 72 hours prior to application of a Sauereisen topcoat. If recoat time exceeds 72 hours, consult Sauereisen.

ConoPrime No. 502 @ 75°F

9 hours	Dry to Touch
9 hours	Minimum Recoat Time
3 - days	Maximum Recoat Time

PACKAGING

ConoPrime No. 502 is packaged in 1 gallon and 4 gallon kits.

One (1) gallon kit is packaged in a 2-gallon pail (partial) Part B-Resin(0.618 gal) and a gallon Pail (partial) Part A - (0.382 gal.)Hardener for ease of mixing.

Four (4) gallon unit is packaged in a 5-gallon plastic pail Part B-Resin (2.47 gal.) and a gallon pail (1.53 gal.) Part A-Hardener for ease of mixing.

CLEAN-UP

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

SHELF LIFE

Sauereisen ConoPrime No. 502 Resin and Hardener have a shelf life of 6 months when stored in unopened, tightly sealed containers in a dry location at 70°F.

Do not freeze. 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.

- 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.**

SAUEREISEN

...since 1899

160 Gamma Drive
Pittsburgh, PA 15238-2989 USA
Phone 412/963-0303
Fax 412/963-7620
www.sauereisen.com