

PenePrime No. 500 is a water-borne epoxy primer to be used in conjunction with the Sauereisen line of coatings, linings and flooring materials. PenePrime is specifically formulated to penetrate deep within concrete substrates. It is recommended to ensure maximum adhesion where conventional primers may not easily penetrate, or where solvent thinned primers are undesirable.

This primer is an integral part of the aforementioned linings in that it seals porous substrates and promotes adhesion of the specified protective material. No. 500 helps reduce off-gassing from concrete. It offers easy application properties to reduce total down time.

## CHARACTERISTICS

- Specifically formulated to deeply penetrate concrete substrates.
- Promotes tenacious adhesion of Sauereisen protective systems.
- Easy to apply - brush or roll.
- Water-borne - no noxious or toxic odors during application.
- VOC compliant.

## AREA PREPARATION

### Temperature of Working Area

Maintain a temperature of 60°-85°F on air, substrate, Liquid, and Hardener components during mixing, application, and cure. The material components should be maintained at 65°F to 85°F for 48 hours prior to beginning work.

At temperatures below 65°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 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

## PHYSICAL PROPERTIES

Application time	
Working time at 70°F	30 minutes
Tack free at 70°F	3 hours
Bond strength to concrete (ASTM D-4541)	Concrete failure
Components	2 parts
Thickness	5-10 mils

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.

the initial set. When the surface temperatures are rising, it may be necessary to postpone the application or apply during cooler hours.

### Surface Preparation

**New Concrete** - All structures must have the necessary strength to withstand imposed loads during normal use and operation. Surfaces should be floated free of ridges or depressions and all voids filled with Sauereisen Underlayment No. F-120 or Filler Compound No. 209. The choice of underlayment will depend on the severity of the voids to be filled. Surfaces should be sloped 1/8 to 1/4 inch per foot for drainage. If No. 209 is the material of choice, it must be applied AFTER PenePrime No. 500.

Substrates must be free of oil, grease, 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 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. Mechanical methods should be utilized to remove laitance, old paints, protective coatings, and attacked or deteriorated concrete. Surfaces must be free of oil, grease, 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 obtain a uniform, sound substrate. All structural cracks should be repaired and all slopes should be reestablished with Sauereisen Underlayment No. F-120.

**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 regouted with appropriate Sauereisen mortar to ensure structural integrity. Mortar joints should be repointed to be flush with the face of the masonry units.

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 surfaces do not have desired conditions, repeat surface preparation procedures.

## APPLICATION

### Mixing

Primers are packaged in premeasured containers consisting of Hardener Part A, and Liquid Part B which must be mixed together before use. Remix the Part A and Part B before combining.

Completely empty contents of Hardener Part A into Liquid 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 color. Primer is ready for use immediately after mixing.

### Installation

Apply Primer to concrete using a squeegee, short nap adhesive roller with a nondetachable core, or nylon bristle brush.

Prior to application of a Sauereisen top-coat, inspect the primed surface for voids, bubbles, or defects that may result in blistering or pinholes in the top coat. Repair with Sauereisen No. 209 Fast Set to ensure a sealed surface.

## COVERAGE

Product	Coverage per Gallon
No. 500	200 ft <sup>2</sup> at 8 mils.

\*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 three hours but not more than 24 hours prior to application of a Sauereisen epoxy system. If recoat time exceeds 24 hours, consult Sauereisen.

## PACKAGING

PenePrime No. 500 is packaged in one gallon and three gallon units.

### 500G - One Gallon Unit

Part A - Hardener 5.90 lbs. packaged in a one gallon metal can.

Part B - Resin - 3.0 lbs. packaged in a one gallon metal can.

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### 500 T (3-Gallon Unit)

Part A - Hardener -17.80 lbs. packaged in a 3-1/2 gallon plastic pail

Part B - Resin - 8.90. lbs. packaged in a two gallon plastic pail.

## 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 PenePrime No. 500 Liquid and Hardener have a shelf life of one (1) year 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.

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