

PHYSICAL PROPERTIES

Application time	
Working time at 70°F	30 minutes
Initial set at 70°F	2 Hours
Bond strength to concrete (ASTM D-4541)	Concrete failure
Components	2 part
Maximum service temperature	250°F (121°C)
Thickness (WFT)	5-10 mils (.24mm)
Volume Solids	82.0%

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. Data should not be used for specification purposes.

Sauereisen VEPrime No. 550 is a vinyl ester primer to be used in conjunction with Sauereisen vinyl ester systems. The function of No. 550 is to promote a tenacious bond of Sauereisen vinyl ester topcoats to concrete and steel substrates.

VEPrime is a packaged, pre-measured unit for use with the following Sauereisen materials: Vinyl Ester Polymer Concrete No. 410, NovolaK Fast-Trak VE Lining No. 441, NovolaK VEGlaze No. 472, NovolaK Vinyl Ester FibreLine No. 440 and NovolaK Vinyl Ester Polymer Concrete No. 465. These products comprise a system for chemical-resistant construction of sumps, dikes, containment areas, trenches, walls and other structural support columns or bases.

CHARACTERISTICS

- Maximum service temperature of 250°F (121°C).
- Fast chemical set - less down time.
- Applied by roller or spray.

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 primer components and substrate should be maintained at 60°F to 85°F for 48 hours prior to beginning work.

At temperatures below 60°F, the application becomes more difficult and curing is retarded.

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

Surfaces should be dry and made free of oil, grease and other contaminants that may inhibit bond. This can be achieved by chemical cleaning.

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

New Concrete - Abrasive blast, high-pressure water blast, or acid etch concrete to remove laitance and obtain uniform surface texture.

Old Concrete - Surfaces must be dry, firm and structurally sound as specified by the architect/engineer. All structural cracks must be repaired. VEPrime will adhere to most cementitious or vinyl ester substrate repair materials but may not be compatible over epoxy patching compounds. Abrasive blast, high-pressure water blast, or acid etch concrete to remove laitance and obtain uniform sound substrate.

Brick - Remove oil, grease, water, and other contaminants that may inhibit bond. Abrasive blast or hydroblast mortar joints to a depth of 1/2 inch to remove all loose material and provide a clean, firm surface.

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 characteristics, repeat surface preparation procedure.

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 or protrusions.

APPLICATION

Mixing

Mixing should be done mechanically at slow-speed using a "Jiffy" mixer blade. The mixing equipment must be clean and free of Portland cement or other contaminants.

Remix Liquid by stirring prior to adding Hardener. Pour the contents of the Hardener into the Liquid and mix thoroughly until blended for at least 3 minutes at slow-speed.

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.

Avoid mixing more material than can be placed in 30 minutes at 70°F. Increased batch sizes will decrease working time of the material. Do not mix partial batches.

Remove entire batch from the container when mixing is completed. This will dissipate the heat which will develop if the material is left in mass.

Installation

Roller - Apply primer by roller to a wet film thickness of 5-10 mils using a short nap roller with a non-degradable core or nylon brush.

COVERAGE

Coverage is 260 ft² per one gallon unit at 6 mils wet film thickness, resulting in a dry thickness of approximately 5 mils.

SETTING/CURING

The No. 550 will take an initial set in two (2) hours at 70°F. Proper curing of VEPrime No. 550 is critical to the serviceability of the completed system; therefore, the substrate and the material temperatures should not be allowed to fall below 60°F until final cure has been achieved. Do not allow water or chemicals on the material surface as this could directly affect inter-coat adhesion.

VEPrime No. 550 may be topcoated after twelve (12) hours at 70°F. If the duration before topcoating exceeds 24 hours, contact Sauereisen to discuss proper solvent wipe procedures.

PACKAGING

VEPrime No. 550 is packaged in a one gallon unit.

Gallon Unit;

Part A Hardener

0.18 pounds in a 4 ounce bottle

Part B Liquid

7.0 pounds in a 1 gallon can

CLEAN-UP

All equipment should be cleaned by scrubbing with a stiff brush and MEK at the end of each working period or when build-up becomes pronounced.

SHELF LIFE

Sauereisen VEPrime No. 550 Hardener and Liquid have a shelf life of three (3) months when stored in unopened, tightly sealed containers in a dry location at 70°F. 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 nonconforming goods at our factory or, at our sole option, to repayment of the purchase price of nonconforming 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.**

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