

PHYSICAL PROPERTIES

Components	1 part
Drying time	
to touch	1 - 2 hours
to recoat	2 - 24 hours
pot life	4 hours
Maximum service temperature	400°F (204°C)
Percent solids	53%
Thickness (WFT)	3-5 mils
(DFT)	1-2 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.

Sauereisen Hi-Temp Primer No. 560 is a single-component, moist-cured urethane primer to be used in conjunction with several Sauereisen coating and lining systems. The function of No. 560 is to promote a tenacious bond of Sauereisen epoxy, vinyl ester and urethane topcoats to concrete and steel substrates.

High Temperature Conductive Primer No. 562 is available. Consult Sauereisen for details.

Hi-Temp Primer is primarily specified for applications subject to elevated temperatures common to flue gas, pulp & paper and process tank environments. Under challenging conditions, No. 560 is designed to resist heat to the same degree as the chemical-resistant topcoat used with it. No. 560 is especially useful where substrate or atmospheric moisture may interfere with the cure of epoxy or vinyl ester primers. The Primer is supplied as a single component to expedite its placement.

CHARACTERISTICS

- o Maximum service temperature of 400°F (204°C) .
- o Fast set, no mixing, less downtime.
- o Applied by brush, roller or spray.

AREA PREPARATION

Temperature of Working Area

For optimum conditions, maintain a temperature of 60°-85°F on air, substrate, and primer during application and cure.

The primer components and substrate should be maintained at 60°F to 85°F for 48 hours prior to beginning work. Hi-Temp Primer No. 560 can be applied at temperatures as low as 20°F as long as surfaces are free of frost. At low temperatures, the cure time will increase.

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

Surface Preparation

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

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

Old Concrete - Surface must be dry, firm and structurally sound as specified by the architect/engineer. All structural cracks must be repaired. Abrasive blast, high-pressure water blast, or acid etch concrete to remove laitance and obtain uniform sound substrate.

Metal - Abrasive blast to a nominal 2.5 mil profile employing SSPC-SP5 White Metal 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 be ground flat.

No. 560 is not recommended for slick and/or non-ferrous metal surfaces (except galvanized). When used over ferrous metals, The No. 561 Zinc Filler must be added to the No. 560.

APPLICATION

Hi-Temp Primer No. 560 may be applied by brush, roller or spray. No mixing is required, simply shake the single component container prior to opening. Appropriate ventilation and/or respiratory equipment is recommended.

A dry film thickness in the range of 1-2 mils should be attained. Excess thickness will adversely effect the cure. To attain the proper dry thickness, application of 3-5 mils wet is suggested.

If material within the container forms a skin, cut out and remove. Carefully stir and transfer remainder of primer into a clean pail. Take care not to transfer gelled material.

Roller - Apply Hi-Temp Primer by roller to the appropriate wet thickness using a short nap roller with a non-degradable core or nylon brush.

Spray - Application by standard airless spray equipment should be done with a 50% overlap in a "cross hatch" pattern to reduce the possibility of pinholes and to assure complete coverage. A wet thickness of 3-5 mils should be attained. Consult Sauereisen for complete details on equipment requirements.

If No. 561 Zinc Filler is to be added, the Filler must be kept absolutely dry and at a temperature of 60-80°F. Slowly add 5 lbs. of Zinc Filler to each gallon of No. 560. Care must be taken to avoid entrapping air which will contain moisture. The Zinc will rapidly settle out if not kept continually agitated at slow speeds. Do not use wooden tools or implements as the moisture in the wood will react with the No. 560.

Do not use plastic tools or implements to weigh, handle, or clean up No. 561 as static charges may cause an explosion..

COVERAGE

866 ft² per gallon @ 1 mil dry film thickness.

433 ft² per gallon @ 2 mils dry film thickness

SETTING/CURING

Hi-Temp Primer No. 560 will dry to the touch in approximately 1-2 hours at 70°F. Topcoating should occur no sooner than two hours after application. Hi-Temp Primer No.560 may be topcoated after two hours at 70°. If the duration before topcoating exceeds 24 hours, consult Sauereisen to discuss proper solvent-wipe procedures.

PACKAGING

Hi-Temp Primer No. 560 is packaged in a one gallon can. Material weight is approximately 8.5 pounds per gallon.

Zinc Filler No. 561 is packaged in a one quart can (mix ratio is 1 qt. Zinc Filler to 1 gal. of Hi-Temp Primer). Material weight is approximately 5 pounds.

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 Hi-Temp Primer No. 560 has a shelf life of six (6) months and Zinc Filler No. 561 has a shelf life of one year 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 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.**

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