

# SAUEREISEN

## REFRACTORY COATING NO. 360

### Heat-cured cement for bonding and coating.

Sauereisen Refractory Coating No. 360 is a heat-cured refractory coating for expendable thermocouple tubes and induction furnace linings. No. 360 exhibits excellent coating properties and may be applied by rolling, dipping or casting.

No. 360 is also available in chemical-set formulation.

### CHARACTERISTICS

- Refractory - withstands short-term immersion in molten metal.
- Heat conductive and thermal shock resistant.
- Insulates electricity.
- Resists oil, solvents and most acids.
- Excellent coating properties.
- Safe to use, odorless and non-toxic.
- Bonds well to most surfaces.
- Available in chemical set formula.

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### PHYSICAL PROPERTIES

Coefficient of thermal expansion (ASTM C372)	16.3 x 10 <sup>-6</sup> in/in/°F (29.34 x 10 <sup>-6</sup> cm/cm/°C)
Color	Off white
Compressive strength (ASTM C579) @ 1 day*	1500 psi (105 kg/cm <sup>2</sup> )
Density	
Wet (ASTM C20)	112 pcf (1.8 gm/cm <sup>3</sup> )
Dry (ASTM C20)	82 pcf (1.3 gm/cm <sup>3</sup> )
Flexural strength (ASTM C580) @1 day*	650 psi (45.6 kg/cm <sup>2</sup> )
Maximum service temperature	2200°F (1204°C)
Modulus of elasticity (ASTM C580)	3.6 x 10 <sup>5</sup> psi (2.5 x 10 <sup>4</sup> kg/cm <sup>2</sup> )
Tensile strength (ASTM C307)	150 psi (10.5 kg/cm <sup>2</sup> )
Pot life	1 hour
Working time	60 minutes

Strengths were obtained after curing at 220°F

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.

### APPLICATION

Sauereisen No. 360 is a two-part, heat-cured cement consisting of a Powder and Liquid which must be mixed together as used. No. 360 Powder should be thoroughly remixed before using. Weigh out approximately 65% of No. 360 Powder and approximately 35% of No. 360 Liquid. Place liquid in a clean mixing container and gradually add Powder while mixing. Continue mixing until a smooth, uniform consistency is obtained. Mixing may be done with a slow-speed mixer or by hand with a spatula.

No. 360 may be mixed to a thinner consistency by regulating the amount of Liquid used; however, the use of excess Liquid will reduce mechanical strength, increase shrinkage and delay set time.

Failure of the cement to adhere indicates that setting has begun - discard cement. Do not attempt to retemper by adding more Liquid. Porous substrates may require dampening with No. 360 Liquid before applying the mixed cement.

### SETTING/CURING

No. 360 has a pot life of approximately one (1) hour at 70°F and will obtain an initial set by air drying in approximately four (4) hours at 70°F. Avoid steaming while drying. If cement will be exposed to elevated temperatures, contact Sauereisen for appropriate drying schedule recommendation.

If high humidity resistance is required and it is impractical to fire cement, a moisture-resistant lacquer or silicone coating should be applied to the exposed surfaces.

## PACKAGING

### *Powder:*

1-gallon cans  
50-pound bags

### *Liquid:*

1-gallon cans  
50-pound pails  
600-pound drums

## CLEAN-UP

All equipment should be cleaned with soap and water before No. 360 cures. If removal is required after cure, consult Sauereisen for recommendations.

## SHELF LIFE

Sauereisen No. 360 Powder and No. 360 Liquid have 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 material, consult Sauereisen.

## CAUTION

Consult Material Safety Data Sheets and container label Caution Statements for any hazards in handling this material.

## 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.

**Information concerning government safety regulations available upon request.**

**Sauereisen also manufactures products for corrosion resistance, electrostatic discharge protection and machinery grouting.**

**SAUEREISEN** ...since 1899

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