

# SAUEREISEN

## CONOSPREAD - CHEMICAL AND FOOD GRADE NO. 250 SERIES

### PHYSICAL PROPERTIES

	ConoWeld No. 501	ConoSpread No. 250	Broadcast No. 251	Vertical No. 252
Application time				
Working time at 70°F	20 minutes	20 minutes	30 minutes	30 minutes
Initial set at 70°F	6 hours	17 hours	17 hours	17 hours
Components	2 part	3 part	3 part	3 part
Thickness	5-10 mils (0.024mm)	1/8" (3mm)	15 mils (0.036mm)	1/8" (3mm)
Bond strength to concrete (ASTM C-478)		Concrete failure		Concrete failure
Compressive strength		20,000 psi		9,000 psi
Density (ASTM C-905)		120.8 pcf		116.1 pcf
Flexural strength (ASTM C-580)		8,200 psi		4,600 psi
Maximum service temperature (Dry)		150°F (65°C)	150°F (65°C)	150°F (65°C)
Modulus of elasticity (ASTM C-580)		1.90 x 10 <sup>6</sup> psi		1.58 x 10 <sup>5</sup> psi
Moisture absorption (ASTM C-413)		0.11%		0.1%
Shrinkage (ASTM C-531)		0.14%		<0.1%
Tensile strength (ASTM C-307)		3,800 psi		2,500 psi

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 ConoSpread - Chemical and Food Grade No. 250 Series is a group of epoxy coatings that provides a corrosion resistant flooring system. The No. 250 is a pour and spread material for quick and easy application. Where greater skid resistance is required, use the No. 251 Broadcast system in conjunction with the No. 250. The trowelable formulation is the Vertical No. 252 which is suitable for cove bases.

These products offer excellent application properties and are ideal chemical resistant lining/flooring materials. The ConoSpread system is recommended for food & beverage, chemical processing, pulp & paper, pharmaceutical, wastewater treatment, textile, steel, mining, power, and metal finishing industries.

The No. 250 Series meets the requirements of the Meat and Poultry Inspection program of the U.S. Department of Agriculture for use in federally inspected meat and poultry plants.

### CHARACTERISTICS

- Resistant to a wide range of acids, alkalis and some solvents.
- Maximum service temperature of 150°F (65°C).
- 100% solids material, no noxious or toxic odors during application.
- Conforms to USDA requirements for meat and poultry plants.
- Available in red or gray color.

### AREA PREPARATION

#### Temperature of Working Area

Maintain a temperature of 50°-85°F on air, concrete substrate, Liquid, Hardener, and Powder components during mixing, application, and cure. The monolithic components and substrate 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 85°F, the material working time decreases.

It is recommended that the material components be stored in a cooler area prior to mixing.

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

#### Surface Preparation

Concrete must be dry, firm and structurally sound as specified by the architect/engineer. Surfaces should be made 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 obtain uniform surface texture resembling coarse sandpaper.

**New Concrete** - Concrete should be floated free of ridges or depressions and all voids filled with Sauereisen Underlayment No. F-120 or Filler Compound No. 209, depending on the severity of the voids. Concrete should be sloped 1/8 inch to 1/4 inch per foot for proper drainage.

If acid etching is utilized as the method of surface preparation, the acid should remain in contact with the concrete until bubbling stops. The concrete should then be flushed with clean water and scrubbed with a stiff bristle broom to remove acid salts and loose deposits. All acid and residue must be removed prior to placing the No. 250 systems.

**Old Concrete** - All structural cracks must be repaired and slopes reestablished with Sauereisen Underlayment No. F-120. Concrete should be sloped 1/8 inch to 1/4 inch per foot for proper drainage.

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 texture, repeat surface preparation procedure.

## EXPANSION/CONTROL JOINTS

Joints are to be provided on 14 foot centerlines and over existing expansion/control joints. Joints should also be placed around all fixed objects, peripheries of rooms and all points of movement in the base slab. Consult Sauereisen for recommendations.

## APPLICATION

### Mixing

Empty contents of the Liquid into a clean, dry mixing container. Empty contents of Hardener into Liquid and mix thoroughly until blended for at least one minute with a slow speed paddle mixer. Gradually add Powder component to blended Hardener/Liquid while mixing to a uniform consistency.

Mix only complete units. 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.

### Installation

#### ConoWeld No. 501

Pour a bead of the primer and spread with a squeegee before rolling to a minimum thickness of 5-10 mils. Use a short nap roller with a non-degradable core or nylon brush for working the primer into the substrate. At 70 °F, allow the primer to dry for 6-24 hours before topcoating with No. 250. For additional information regarding No. 501, consult the ConoWeld data sheet or call Sauereisen.

#### ConoSpread No. 250

Pour the epoxy basecoat and spread with a screed rake to a minimum thickness of 1/8 inch. Next, lightly backroll with a "spiked" roller to remove any high/low spots left in the material.

#### Broadcast No. 251

The broadcast system consists of an aggregate and sealer. Broadcast all of the aggregate to rejection on to the No. 250 within one hour. Excess aggregate is removed by vacuum after 17 hours and the sealer is then applied by roller.

#### Vertical No. 252

The vertical formulation for cove base construction is trowel applied at a minimum thickness of 1/8 inch. No primer is required. To remove trowel marks, backroll the material with a water-dampened short nap mohair roller.

## COVERAGE

ConoWeld No. 501 200 ft<sup>2</sup>/gal. at 8 mils

ConoSpread No. 250 30 ft<sup>2</sup> at 1/8 inch

Broadcast No. 251 40 ft<sup>2</sup> at 15 mils

Vertical No. 252 35ft<sup>2</sup> at 1/8 inch

\*Quantities do not include losses during application

## SETTING/CURING

The ConoSpread - Chemical and Food Grade No. 250 series will take an initial set in 17 hours at 70°F. Do not allow water or chemicals on the material surface for a minimum of 48 hours. For temperatures below 70°F, cure a minimum of 72 hours prior to water or chemical exposure.

## PACKAGING

ConoWeld No. 501 1 & 3 gal. units

ConoSpread No. 250 40.7 lb. unit/pail

Broadcast No. 251 56.7 lb. unit

Vertical No. 252 47.2 lb. unit/pail

## CLEAN-UP

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

## SHELF LIFE

Sauereisen No. 250 Series Liquids, Hardeners, and Powders have a shelf life of one (1) 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 Sauereisen.

## 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.**

□ **Sauereisen also produces inorganic compounds for assembling, sealing, electrically insulating and grouting.**

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