

SAUEREISEN

CONOSPREAD - CHEMICAL & FOOD GRADE No. 256

Sauereisen ConoSpread - Chemical & Food Grade No. 256 is a versatile epoxy flooring system catering to standard pour and spread application methods.

This product offers excellent application properties and diverse chemical resistance. Typical installations involve the application of a basecoat slurry that is topped with a broadcast for additional skid resistance. Sealing of the broadcast is optional, but recommended for best overall performance and aesthetics.

ConoSpread No. 256 is packaged in 1-gallon, large, and bulk sizes to facilitate project needs. Refer to estimating table for coverages of the various system options.

ConoSpread is commonly specified as protective flooring for process areas in the food & beverage, chemical processing, pharmaceutical, steel, mining, power, and metal finishing industries. The ConoSpread system should be used with an appropriate Sauereisen primer to enhance bonding. Consult Sauereisen for a primer recommendation depending on the type of substrate and surface conditions.

CHARACTERISTICS

- o Excellent thermal shock resistance.
- o Resistant to a wide range of acids, alkalis and some solvents.
- o Available colors: 53 gray, 63 tile red, 01 black.

AREA PREPARATION

Temperature of Working Area

The monolithic components and substrate should be maintained at 65°F to 85°F for 48 hours prior to beginning work.

For optimum conditions, maintain a temperature of 65°-85°F on air, concrete substrate and material components during mixing, application, and cure.

PHYSICAL PROPERTIES

Absorption (ASTM C-413)	<0.2%
Application time	
Working time at 70°F	45 minutes
Initial set at 70°F	12 hours
Bond strength to concrete (ASTM D-4541)	Concrete failure
Compressive strength	11,800 psi
Density (ASTM C-905)	111.4 pcf (14.89 lbs./gal.)
Flexural strength (ASTM C-580)	6,375 psi
Maximum service temperature (Dry)	180°F (82°C)
Modulus of elasticity (ASTM C-580)	7.5 x 10 ⁵ psi
Shrinkage (ASTM C-531)	0.14%
Tensile strength (ASTM C-307)	3,075 psi
Thickness	1/4 inch, filled and broadcast; 6 mils, sealant

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.

At temperatures below 65°F, the application becomes more difficult and curing is prolonged. Above 85°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 the initial set. In rising temperatures, it may be necessary to postpone the application or to apply during cooler hours.

Surface Preparation

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

Concrete must be dry, firm and structurally sound as specified by the architect/engineer. Concrete shall have a tensile pull off strength of 200 psi or greater as tested by ACI 515.1 Appendix A. Abrasive blast, high-pressure water blast, or acid etch concrete to remove

laitance and to obtain uniform surface texture resembling coarse sandpaper. 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.

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 a maximum 1/8 inch per foot for drainage. Too much slope may result in inconsistent coverage or require a stiffer mix. Consult Sauereisen for recommendations. If acid etching is utilized as the method of surface preparation, refer to ASTM D-4260 "Standard Practice for Acid Etching Concrete" for the appropriate procedure. All acid and residue must be removed prior to placing the ConoSpread system.

Old Concrete - All structural cracks must be repaired and slopes reestablished with Sauereisen Underlayment No. F-120. Finished substrate should be sloped to a maximum 1/8 inch per foot.

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

Primers - An appropriate Sauereisen primer should be applied prior to the epoxy flooring installation. ConoWeld No. 501 or PenePrime No. 500 may be used depending on the conditions of the substrate. Review the primer data sheets for mixing, curing, and application instructions.

Mixing of ConoSpread - GENERAL - When using ConoSpread, empty contents of Part A Hardener, Part B Resin and Part D Pigment into clean container and mix thoroughly with a drill motor and "Jiffy" blade for at least 3 minutes. Immediately pour entire contents onto floor and spread with a trowel, roller, or epoxy screed to specified thickness.

Mixing of ConoSpread - UNFILLED SYSTEM - When using ConoSpread as an unfilled coating or sealer, mix as above.

Slurry mixes - When using No. 256 as a slurry, empty Parts A, B, D, as above into a clean mixing vessel and mix for at least two minutes.

For a uniform surface texture, Aggregate should be broadcast to rejection. The recommended Aggregate filler for the No. 256 is a clean, white silica sand.

The Aggregate sizing should meet the parameters of 95% passing through a 30 mesh screen but 100% being retained on a 100 mesh screen.

System	Coverages	Part A	Part B	Part D	Part C
Standard 256					
Packaging					
Large Unit	100 sq. ft.	1-gal., 109.8 oz.	4-gal., 23.3 oz.	27.53 oz.	350#
Bulk Unit	1,000 sq. ft.	18-gal., 73.8 oz.	41-gal., 105.5oz.	2-gal., 19.3 oz.	3,250#
Sealer (Topcoat)					
1 Gallon Unit	134 sq. ft.	50.19 oz.	69.40 oz.	6.82 oz.	-N/A-

NOTE: Chart to be used as guide only. Large unit does not include Sealer coat. Bulk unit does include Sealer coat.

Add Aggregate Part C to obtain the desired consistency. Aggregate loading rates will vary depending on the specific thickness specified.

Installation of Basecoat Slurry - Pour the material in a narrow band starting at any convenient wall or joint. Spread using an epoxy screed rake or cam rake. After the material has been spread, backroll using a 1/4 inch short nap roller and spiked roller. Workers should wear spiked shoes to allow the slurry to self-level.

When building towards a total system thickness of 1/4 inch, distribution of the basecoat slurry may be by assisted with a trowel.

Broadcast Procedure - Immediately after backrolling, additional Aggregate should be broadcast into the slurry to thicken the basecoat and/or provide skid resistance.

The Aggregate should be rounded with a purity of 99.8% and a moisture content of less than .1%.

For more information consult Sauereisen for aggregate quality assurance standards.

Sealing Procedure - The final step of a sealer coat is optional, yet recommended. Left unsealed, the greatest degree of skid resistance will remain.

Sealing provides a more easily cleaned surface. Another consideration is that a small degree of wear, due to abrasion, should be expected when an unsealed floor is put into service. Unfilled components A,B, and D are used for purposes of sealing. The mixed combination of Hardener, Resin and Pigment should be spread with a squeegee and backrolled.

SETTING/CURING

Primers

Allow the ConoWeld No. 501 to cure a minimum 8 hours or until firm but tacky prior to applying ConoSpread. PenePrime 500 must be allowed to cure at least three hours prior to application of ConoSpread. The maximum cure time for primers prior to the ConoSpread application is 24 hours.

ConoSpread No. 256

The ConoSpread will take an initial set in 8 hours at 70°F. Do not allow water or chemicals on the material surface for a minimum of 24 hours. For temperatures below 70°F, cure a minimum of 48 hours prior to water or chemical exposure.

PACKAGING

ConoSpread No. 256 - Gallon Unit

Part A Hardener: **(2.281 lbs.)** 1/2-gal. can

Part B Resin: **(5.922 lbs.)** 1-gal. can

Part D Pigment: **(.3964 oz.)** 1-pint can

ConoSpread No. 256 - Large ABD Unit

Part A Hardener: 2-gal. pail
(1 gal., 109.8 oz. or 15.48 lbs.)

Part B Resin: 5-gal. pail
(4 gal., 23.3 oz. or 40.185 lbs.)

Part D Pigment: 1 quart can
(27.53 oz. or 2.685 lbs.)

ConoSpread No. 256 - Bulk ABD Unit

Part A Hardener: 3 pails plus 1 can
(18 gal., 73.8 oz. or 154.8 lbs.)

Part B Resin: 55-gal. drum
(41 gal., 105.5 oz. or 401.85 lbs.)

Part D Pigment: 3-1/2 gal. pail
(2 gal., 19.3 oz. or 26.85 lbs.)

ConoSpread No. 256 Part C Aggregate Sauereisen packages ConoSpread Aggregate in 50 lb. bags that are ordered separately.

***Containers are filled by weight, not by volume. Container size does not indicate volume contents.**

CLEAN-UP

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

SHELF LIFE

ConoSpread, ConoWeld, and PenePrime have a shelf life of one year. Store in unopened, tightly sealed containers in a dry location at 70°F. Avoid freezing. 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 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 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.**

SAUEREISEN...since 1899

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