

Arctikure No. 230 is a three-component epoxy monolithic floor system that is used to protect concrete and other substrates from chemical and physical abuse. No. 230 is designed for cold room applications and will cure at temperatures as low as 35°F. Arctikure has the durability to withstand the physical abuse, fatty acids, by-products, oils and sanitizers typically found in food processing environments.

This skid-resistant system has the versatility for use in freezers, refrigeration rooms and higher temperature areas. The cold curing capability allows for a faster turnaround and less disruptive application in dairies, bottling facilities and food plants.

ArctiPrime No. 530 is recommended as a bond enhancing primer for use with Arctikure. The primer has the same cold curing attributes as Arctikure.

CHARACTERISTICS

- Excellent resistance to food acids and by-products.
- Conforms to USDA requirements for use in federally inspected meat and poultry plants.
- Easily cleaned, skid-resistant surface.
- Available in colors 53 gray & 63 tile red.

AREA PREPARATION

Temperature of Working Area

For optimum conditions, maintain a temperature of 35°-70°F on air, substrate, and materials during mixing, application and cure. The monolithic components should be maintained at 65°F to 80°F for a minimum of 48 hours prior to beginning work. Do not store or apply below 35°F. Cure time will increase at low temperatures. Above 80°F, material working time decreases significantly and cure may occur too quickly for practical use.

PHYSICAL PROPERTIES

Application time 35°F	
Working time	30 minutes
Initial set	17 hours
Bond strength to 3,000 psi concrete	Concrete failure
Compressive strength (ASTM C-579)	
24 hours @35°F	5,500 psi (387 kg/cm ²)
7 days @ 70°F	14,500 psi (1,019 kg/cm ²)
Density (ASTM C-905)	140.7 pcf (2.25 gm/cm ³)
Flexural strength (ASTM C-580)	5,000 psi (352 kg/cm ²)
Maximum service temperature (Dry, continuous)	120°F (49°C)
Modulus of elasticity (ASTM C-580)	2.6 x 10 ⁶ psi (1.8 x 10 ⁵ kg/cm ²)
Tensile strength (ASTM C-307)	2,600 psi (183 kg/cm ²)

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.

Application in direct sunlight and/or rising surface temperature may result in blistering of the materials due to expansion of entrapped air or moisture in the substrate.

Surface Preparation

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

New Concrete - All structures must have the necessary strength to withstand imposed loads during normal use and operation. Surfaces are to be floated free of ridges or depressions and all voids filled with Underlayment No. F-120 or Filler Compound No. 209. The choice of underlayment will depend on the severity of the voids to be filled. Surfaces should be sloped a maximum 1/4 inch per foot for drainage.

Abrasive blast, high-pressure water blast, or acid etch concrete to remove laitance and obtain uniform surface texture exposing fine aggregate resembling coarse sandpaper.

Old Concrete - Concrete must be dry, firm and strong enough to withstand imposed loads during normal use and operation. Mechanical methods should be utilized to remove old paints, protective coatings, and deteriorated concrete.

Abrasive blast, high-pressure water blast, or acid etch concrete to obtain uniform sound substrate.

All structural cracks should be repaired, and all slopes reestablished with Sauereisen Underlayment No. F-120.

All prepared surfaces must be allowed to dry prior to monolithic application. Regardless of preparation method used, all surfaces must be vacuumed to remove any loose deposits or contamination.

Transition Detail "Key"

All exposed perimeter edges, including doorways, drains, traffic aisle sides, etc., must be saw cut to a minimum depth of 1/2 inch then chipped out at a 45° angle on the inside of the area to be resurfaced with Arctikure. All saw cutting and keying should be done prior to final surface preparation. Contact Sauereisen if more detail is required.

EXPANSION/CONTROL JOINTS

Joints are to be provided on 20 foot centerlines and over existing expansion/control joints. Joints must 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

ArctiPrime No. 530 - Primer is packaged in premeasured containers consisting of Hardener Part A and Resin Part B which must be mixed together before use. Remix each component before combining.

Completely empty contents of Hardener Part A into Resin Part B container. Using a slow speed 1/2 inch drill motor with a "Jiffy" type blade, mix thoroughly until blended for 3-5 minutes. Primer is ready for use immediately after mixing.

Arctikure No. 230 - Packaging consists of premeasured unitized containers of Hardener, Resin and Aggregate components. The Hardener and Resin should be remixed before combining.

Arctikure units are packaged in two 20 ft² batches to allow for a quick placement of material. The following instructions are for one 20 ft² batch.:

Mix Part B Resin with a Jiffy mixing blade affixed to a 1/2 inch slow-speed drill motor until the pigmented Resin is completely blended and color is uniform. Empty one half gallon can of Hardener Part A into Resin Part B and mix for 30 seconds to one minute. After mixing, empty the mixed material into a clean five gallon bucket and add one half of the 42 lb. box of Part C Aggregate. Mix for 1 to 1.5 minutes and add the remaining Aggregate. Continue mixing until all Aggregate is wetted out and material is a uniform consistency (approximately 2.5 to 3 minutes).

Mix only complete batches. Material which has begun to set must be discarded. Do not add any solvent, additive, or adulterant to any component or mixed material.

Installation

ArctiPrime No. 530 - Apply Primer to concrete using a short nap adhesive roller with a nondegradable core or a nylon bristle brush. Arctikure can be placed immediately after application of the Primer.

The No. 530 Primer should be wet to tacky when the topcoat is applied by trowel. If the ArctiPrime cures hard before application of the No. 230, apply an additional coat of primer.

Arctikure No. 230 - Material should be delivered to finishers and spread onto the floor immediately after mixing. Do not let mixed material remain in the mixing vessel. Spread Arctikure with a spreader box, screed, or by hand to the desired thickness (1/4 inch minimum). Use a steel trowel to compact and finish the surface. Finishing must be completed within 30 minutes from mixing.

COVERAGE

ArctiPrime No. 530:
320 ft² per gallon unit at 5 mils thickness.

Arctikure No. 230:
40 ft² per unit at 1/4 inch thickness.

Coverage is theoretical and will vary depending upon surface conditions, porosity, application techniques and specific project conditions.

SETTING/CURING

Do not allow water or chemicals on the Arctikure surface for a minimum of 8 hours at 70°F or 17 hours at 35°F. For harsh chemical or physical environments cure a minimum of 36 hours at 35°F prior to exposure.

TOPCOAT

Arctikure No. 230 does not usually require a topcoat. For specific service conditions, a topcoat may be desirable. Contact Sauereisen for a recommendation and appropriate ConoGlaze topcoat for your application.

PACKAGING

ArctiPrime No. 530 - 12 lbs. shipping wt.
Hardener Part A (1) 1 gallon can
Resin Part B (1) 1 gallon can

Arctikure No. 230 - 105 lbs. shipping wt.
Hardener Part A (2) 1 gallon cans
Resin Part B (2) 1 gallon cans
Aggregate Part C (2) 42 pound boxes

Arctikure units are packaged in two 20 ft² batches which will accommodate mixing in a pail mixer.

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

CLEAN-UP

All equipment should be cleaned with MEK before Primer or No. 230 material cures. If removal is required after cure, consult Sauereisen for a specific recommendation.

SHELF LIFE

Arctikure No. 230 has a shelf life of one (1) year when stored in unopened, tightly sealed containers in a dry location at 70°F. ArctiPrime Hardener and Resin shelf life matches that of No. 230. Avoid freezing. 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.**

SAUEREISEN ...since 1899
160 Gamma Drive
Pittsburgh, PA 15238-2989 USA
Phone 412/963-0303 Fax 412/963-7620
www.sauereisen.com