SAUEREISEN

AGUAPOXY NO. 28

Sauereisen Aguapoxy No. 28 is a three component, water cleanable, general purpose epoxy grout for bonding chemical resistant masonry units. The No. 28, combined with brick or tile, offers rapid installation and clean up with potable water.

The water cleanable feature of Aguapoxy No. 28 is designed for tile projects where aesthetics are critical. The benefit is a more user-friendly and visually appealing application since uncured No. 28 can be removed easily from the face of unwaxed tile without leaving an unsightly stain.

Sauereisen's No. 28 is used to construct floors, sumps and trenches in chemical processing areas, food & beverage plants and dairies. This tile grout/setting bed resists food stuffs and cleaning compounds commonly found in these types of plants. Aguapoxy also provides a strong bond to concrete, tile and other substrates.

CHARACTERISTICS

- o Resists food stuffs and cleaning compounds common to food & beverage environments and dairies.
- o Conforms to USDA standards for use in federally inspected meat & poultry plants.
- o Environmentally friendly - No VOC's or HAP's

AREA PREPARATION

Temperature of Working Area

Prior to beginning work, maintain materials and substrate between 65°F and 80°F for 48 hours.

For optimum application conditions, maintain a temperature of 65° - 85°F on air, substrate, masonry units and No. 28 components during mixing, application, and cure.

PHYSICAL PROPERTIES

Absorption (ASTM C-413)	
Application time	
Working time at 70°F	35 minutes
Initial set at 70°F	18 - 24 hours
Color	Black/Gray
Compressive strength (ASTM C-579)	5,266.24 psi
Density (ASTM C-905)	118.75 pcf
Flexural strength (ASTM C-580)	2,553 psi
Modulus of elasticity (ASTM C-580)	5.7×10^4 psi
Shrinkage (ASTM C-531)	0.01%
Shore D Hardness	74
Tensile strength (ASTM C-307)	1,365 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.

At temperatures below 65°F, the viscosity increases and application becomes more difficult. At temperatures below 50°F, curing may not occur, or at the very least, cure time will lengthen. Above 80°F, working time of the material decreases. In higher temperatures it is recommended that the Liquid be cooled by placing its pail in a large container filled with water and ice or storing all components in a cool area.

Surface Preparation

Concrete - Surfaces must be free of oil, grease, water, and other contaminants that may inhibit bond. This may require chemical cleaning.

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

All structures must have the necessary strength to withstand imposed loads during normal use and operation. Surface must be floated free of ridges or depressions. Slope or re-established surfaces to a maximum 1/8 to 1/4 inch per foot for drainage.All voids and structural cracks must be addressed with Sauereisen Underlayment No. F-120 or No. 209 Filler Compound depending on the severity of the voids to be filled.

Ideal surface preparation requires mechanical methods to remove laitance, old paints and previously applied protective coatings. Abrasive blast or high-pressure water blast to obtain uniform surface texture exposing fine aggregate resembling coarse sandpaper.

Ultimately, concrete must be dry, firm, and possess the necessary strength to withstand imposed loads during normal use and operation.

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

APPLICATION

Mixing

Packaging consists of premeasured unitized containers of Hardener Part A, Liquid Part B, and Powder Part C. Remix Parts A and B before combining.

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Pour Liquid Part B into a clean mixing container. Add Hardener Part A. Using a Kohl or bucket type mixer, mix thoroughly for two minutes. Slowly add 2/3 of Powder Part C and mix until all material is wetted out. Then add remainder of Powder and continue mixing until uniform in consistency. Material which has begun to set cannot be retempered and must be discarded.

Installation

Tile Setter's Method - Using a 1/8 inch notched trowel, apply 1/8 inch setting bed of No. 28 directly to the substrate. Set the tile directly into the wet bed joint. Align the tiles while applying pressure. Once the setting bed has cured enough to allow foot traffic without dislodging or moving tile, grouting may begin.

Apply grout with a straight-edged rubber trowel, taking care to strike all joints at a diagonal rather than parallel or perpendicular orientation to the joint.

Finishing

Dampen the freshly grouted tile with a small amount of clean tap water. Immediately wipe the excess grout from the face of the masonry using undyed burlap or a white plastic scrub pad. Take care not to gouge the joints. Wipe off excess water and allow grout to cure.

CLEAN-UP

All equipment should be cleaned with water followed by a wipe down with MEK before Aguapoxy cures. If removal is required after curing, consult Sauereisen for recommendations.

SETTING/CURING

An initial set occurs in 18-24 hours at 70°F. A final set is achieved at 96 hours. Do not expose to water, steam, or chemicals before grout is fully cured. Temperatures below 65°F will delay set and cure. Consult Sauereisen for recommendations.

EXPANSION/CONTROL JOINTS

Joints are to be provided on 20 foot centerlines around all fixed objects, peripheries of rooms and all points of movement in the base slab. Consult Sauereisen for product recommendation.

SHELF LIFE

Aguapoxy No. 28 components have a shelf life of one year when stored in unopened, tightly sealed containers in a dry location at 70ºF. Avoid freezing.

PACKAGING

Regular
One Gallon Unit:
Part A Hardener: 0.8 lbs. in 1 Quart Can
Part B Resin: 2.42 lbs. in 1 Gallon Can
Part C Powder: 12.67 lbs. in poly bag contained in a 5 gallon pail.

Large
Three Gallon Unit:
Part A Hardener: 2.3 lbs. in 1/2 Gallon Can
Part B Resin: 7.2 lbs. in 1 Gallon Can
Part C Powder: 37.6 lbs. in a Poly Bag contained in a 6 Gallon Pail.

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.

Estimating Table - material quantities per square foot

Common quarry tile sizes						
Length (in)	6	6	8	8	8	8
Width (in)	6	6	$3\frac{7}{8}$	$3\frac{7}{8}$	4	4
Thickness (in)	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{3}{16}$	$1\frac{3}{8}$	$1\frac{3}{8}$	$1\frac{1}{2}$
No. of Brick with $\frac{1}{4}$-in joints	3 .69	3.69	4.43	4.43	4.3	4.3
Lbs Mortar for $\frac{1}{4}$-in side joints	0.38	0.573	1.03	1.19	1.16	1.27
Lbs Mortar for $\frac{1}{8}$-in setting bed or back joint/ft^2	← 1.21 →					

The above quantity requirements are based upon physical dimensions of chemical-resistant masonry units and actual weight of mortar as determined by ASTM C-905. Actual usage rate will vary dependent upon scope of installation, experience of workmen, field conditions and other contingencies. Personnel using the above chart should, therefore, add an appropriate wastage factor.

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