SAUEREISEN

# NOVOGROUT NO. 25 WW

Sauereisen NovoGrout No. 25 WW is a three-component water washable epoxy novolak grout for bonding chemical resistant masonry units. The No. 25 WW combined with brick or tile offers rapid installation and clean up with potable water.

The water washable capabilities of NovoGrout No. 25 WW is especially designed for tile installations where aesthetics and non-odor materials are critical.

No. 25 WW is used to construct floors, sumps and trenches in chemical processing, food & beverage plants and dairies. This tile grout/setting bed has excellent resistance to food stuffs and cleaning compounds commonly found in these types of plants.

No. 25 WW provides a strong bond to concrete, tile and other substrates. Used with or without an underlying membrane, this product is an important element of an impermeable system of protection.

If your chemical environment or construction requires a more suitable material, Sauereisen offers Epoxy Novolak/Mortar Setting Bed No. 25 and Low Temp No. 25 LT. Consult Sauereisen for recommendations.

## CHARACTERISTICS

- o Resists food stuffs and cleaning compounds common in food & beverage and dairy plants.
- o Authorized by USDA for use in federally inspected meat and poultry plants.

## AREA PREPARATION

**Temperature of Working Area**

For optimum application conditions, maintain a temperature of 60$^{o}$ - 85$^{o}$F on air, substrate and No. 25 WW Powder, Liquid, Hardener, and masonry units during mixing, application, and cure. Maintain materials and substrate between 65$^{o}$F and 80$^{o}$F for 48 hours prior to beginning work.

At temperatures below 65$^{o}$F, the viscosity increases and application becomes more difficult. No. 25 WW can be applied at temperatures as low as 50$^{o}$F; however cure time will lengthen. Above 80$^{o}$F, working time of the material decreases. In higher temperatures it is recommended that the Liquid be cooled by placing the pail in a large container filled with water and ice or storing in a cool area.

**Surface Preparation**

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

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

*New Concrete* - 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 and all voids filled with Sauereisen Underlayment No. F-120 or No. 209 Filler Compound. 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 or high-pressure water blast concrete to remove laitance and obtain uniform surface texture exposing fine aggregate resembling coarse sandpaper. Acid etching may be used as an alternative method of surface preparation.

*Old Concrete* - Concrete must be dry and firm and possess the necessary strength to withstand imposed loads during normal use and operation. Ideal surface preparation requires mechanical methods to remove laitance, old paints and previously applied protective coatings.

Abrasive blasting and high-pressure water blasting are preferred methods of mechanical surface preparation. Acid etching is only recommended for areas where no alternative means of preparation are viable.

## PHYSICAL PROPERTIES

| | |
|---|---|
| Absorption (ASTM C-413) | |
| Application time | |
| Working time at 70$^{o}$F | 35 minutes |
| Initial set at 70$^{o}$F | 18 - 24 hours |
| Color | Black/Gray |
| Compressive strength (ASTM C-579) | 7,000 psi |
| Density (ASTM C-905) | 106 pcf |
| Flexural strength (ASTM C-580) | 4,300 psi |
| Modulus of elasticity (ASTM C-580) | 1.1 x 10$^{5}$ psi |
| Shrinkage (ASTM C-531) | 0.069% |
| Tensile strength (ASTM C-307) | 2,300 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. Properties for the cold curing formulation vary by time and temperature.

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

All 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 Part A and B before combining.

Pour Liquid Part B into a clean mixing container. Add Hardener Part A to Liquid Part B. 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 Epoxy Setting Bed No. 26 or No. 25 WW directly to the substrate. Set the tile directly into the wet bed joint.

Align the tile while applying pressure to the tile. Once the setting bed has cured enough to allow foot traffic without dislodging or moving tile, grouting may begin.

Apply grout by straight edged rubber trowel, taking care to strike all joints at a diagonal rather than parallel or perpendicular.

## 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, taking 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 NovoGrout cures. If removal is required after the cure, consult Sauereisen for recommendations.

## SETTING/CURING

An initial set occurs in 18-24 hours at 72°F. A final set is achieveved at 96 hours. Do not expose to water, steam, or chemicals before grout is fully cured. Temperatures below 65°F will slow set and cure. Consult Sauereisen for recommendations.

## 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 | 0.35 | 0.082 | 0.94 | 1.09 | 1.06 | 1.16 |
| Lbs Mortar for $\frac{1}{8}$-in setting bed or back joint/ft$^2$ | ← 1.11 → | | | | | |

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.

## 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.

## PACKAGING

**No. 25 WW** is supplied as a 37.68-lb. unit which includes three components:

| | | |
|---|---|---|
| Part A: | Hardener | 2.66 lbs./1-gallon can |
| Part B: | Liquid | 6.825 lbs/1-gal. can |
| Part C : | Powder | 28.2 lbs. poly. bag/ 5-gal. pail |

Bulk packaging is available. Consult Sauereisen for details.

This is packaged to give a tile grout consistency. The suggested grout mix ratio by weight is shown below:

| | 25 WW |
|---|---|
| Resin/Hardener | 1 |
| Powder | 2.97 |

## SHELF LIFE

NovoGrout No. 25 WW Liquid, Hardener, and Powder have a shelf life of one (1) year when stored 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 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**

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