



**product data**

**SELECTION & SPECIFICATION DATA**

<b>TYPE &amp; DESCRIPTION</b>	Greenstone 430 Mortar is a urethane based monolithic floor surfacer, specifically designed for surfacing and patching both old and new floors, and formulated for optimum chemical resistance and physical properties. Trowel applied at 1/4" nominal film thickness.
<b>ADVANTAGES</b>	Cures quickly to form an exceptionally tough, impact and abrasion resistant surface. Excellent adhesion to concrete, steel, and wood. Minimum down time. Skid resistant, sanitary, non-shrinking. Easy to clean - USDA acceptable.
<b>CHEMICAL RESISTANCE</b>	Not affected by water, oil, brine, most acids and alkalines. For specific recommendations, please refer to Greenstone's Chemical Resistance Guide.
<b>USES</b>	Resurfacing floors in food production plants, aisle ways, chemical spill containment area's, industrial production facilities, and pulp and paper mills.
<b>GOVERNMENT AGENCY</b>	Meets the requirements of the U.S. Department of Agriculture (USDA) for use as an incidental food contact flooring system.

**FOR INDUSTRIAL USE ONLY!**

<b>PHYSICAL DATA</b>	<b>Compressive Strength, ASTM D695 - 8,100 psi</b> <b>Modulus of Elasticity, ASTM D580 - 1.7 X 10<sup>5</sup></b> <b>Tensile Strength, ASTM D638 - 950 psi</b> <b>Flexural Strength, ASTM D790 - 1,900 psi</b> <b>Thermal Coefficient of Linear Expansion, ASTM D696 - 1.1 X 10<sup>-5</sup> in/in/°F.</b> <b>Bond Strength, ASTM C-321 - Greater than 350 psi (100% substrate failure).</b> <b>Impact Strength - 120 in/lbs.</b> <b>Indentation - MIL-D-3134F - No Indentation</b> <b>Water Absorption - ASTM C-413 - 0.047%</b> <b>Shelf Life - Minimum 6 months when storage temperature is between 70°F and 85°F.</b> <b>Working Time - approximately 20 minutes at 75°F.</b> <b>Potlife - 15 minutes at 75°F.</b> <b>Cure Time - Greenstone 430 will harden in 8-12 hours at 75°F. The warmer the temperature, the faster it cures. Allow a minimum cure of 24 hours for light traffic, and 96 hours for heavy traffic loads and chemical spillage. Maximum chemical and physical properties will be attained after 28 days at 75°F.</b> <b>Flammability - Does not support combustion</b> <b>Solids - 100%</b> <b>Colors - Gray, Red (Special colors available, please contact Sales for details)</b>
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<b>PACKAGING / COVERAGE</b>	<b>430 MORTAR - packaged in batches -</b> <b>1 BATCH KIT - covers approximately 16 square feet at 1/4" - containing the following -</b> <b>1 container - Part A (resin)</b> <b>1 container - Part B (hardener)</b> <b>1 bag - Part C (chemical resistant aggregate)</b> <b>3 BATCH KIT - covers approximately 48 square feet at 1/4 inch - containing the following -</b> <b>1 container - Part A (resin)</b> <b>1 container - Part B (resin)</b> <b>3 bags - Part C (chemical resistant aggregate)</b> <b>Required - 430 PRIMER - 8 mils.</b>
<b>SUPPLEMENTAL PRODUCTS</b>	<b>440 Grout, 100 Topcoat, 100 CR Topcoat</b>

## SURFACE PREPARATION AND SUBSTRATES

### SURFACE PREPARATION

**New Concrete:** must have a minimum of 28 days cure, and no curing agents or sealers shall be used. Remove oil, grease or other loose or foreign materials and contaminants. A good bonding tooth, the texture of rough sandpaper, is required to maximize adhesion, with the removal of all glaze. Examples of mechanical surface prep including, but not limited to -

- A. Sandblast with steel shot, fine silica, or other similar material.
- B. Wheel Abrader
- C. Scarify

**Existing Concrete:** remove all loose, weak concrete, and any paint wax, oil, grease or other contaminants. Once the concrete has been cleaned and neutralized, mechanical surface preparation shall be used to provide a good bonding tooth, a texture of rough sandpaper, with the removal of all glaze. Examples of mechanical surface preparation including, but not limited to -

- A. Sandblast with steel shot, fine silica, or other similar material.
- B. Wheel Abrader
- B. Scarify

**Note:** Holes and depressions 1/4" or deeper should be prefilled with 450 grout, or a similar system, prior to application. All surfaces must be dry prior to application of polymer system.

## MIXING AND EQUIPMENT

### MIXING

**Primer (not included)** - Mix Part A and B thoroughly and spread evenly at approximately 8 mils (200 square feet per gallon).

**Mortar / Surfacer** - Empty the contents of Part B into Part A and mix thoroughly. When completed, empty the container into a mechanical mixer, draining the container for approximately 30 seconds. Start the mixer, and slowly add the Part C, chemical resistant aggregate, and mix the three components for approximately 3 minutes - until completely homogeneous. Note - Person mixing should wear a dust mask or respirator.

**Mixer:** A mechanical mixer designed for quick, thorough mixing of aggregate epoxy systems similar to those manufactured by -

Kol Mixal	Quick Stir, INC.
Div. of Man U Fab Inc.	P.O. Box 327
7740 Main St. N.E.	Port Clinton, Ohio 43452
Minneapolis, MN 55432	

**Important!** - The working life of the mixed blend is approximately 20 minutes. Always pour mixed batches as soon as possible. Do not reseal mixed containers!

## APPLICATION AND SAFETY

### APPLICATION

**PRIMER: (required)** Apply approximately 8 mils of Primer by brush or roller. Spread the mortar immediately, before the Primer has hardened, which will occur in approximately 30 minutes at 75°F.

**FLOOR SURFACER / MORTAR:** Pour the entire batch onto the floor in a ribbon approximately 10" wide. Spread with a clean steel trowel, applying pressure to scratch surfacer thoroughly into floor surface. Smooth the surfacer with trowel, holding it nearly flat and applying even pressure. Finish each batch as you go. A quality 3" x 10" cement finishing trowel, such as Goldblatt or Marshalltown, is recommended.

**FINISHING THE EDGES** - Cut approximately 1/2" deep chase or groove into concrete. Chisel a shoulder into the saw cut, back approximately 2 to 4 inches. Trowel smooth to meet adjoining floor level. Do not use a feather edge.

**CURE TIME** - Greenstone 430 Mortar will harden within a few hours at 75°F. The warmer the temperature, the faster the cure. Allow 24 hours, at 75°F, for light traffic, and 96 hours for full cure. Maximum chemical

**CLEAN-UP** - Cured or hardened Greenstone 430 is almost impossible to remove. Clean tools and equipment immediately with hot soapy water, or a mixture of acetone and ethanol.

### SAFETY

Observe good personal hygiene. Certain personnel may be sensitive to various types of resins which may cause dermatitis. Avoid contact with skin and breathing of vapor. Read and follow all caution statements on product info bulletin, material safety data sheet and container labels for this product. This bulletin provides standard information for the system and application procedure. Since varying application conditions may not be covered, consult GREENSTONE Technical Service Department for further information.

We guarantee our product to be free of defects in material and workmanship, and to be in accordance with our company quality control standards. All data, statements and recommendations made herein are based upon information we believe to be reliable, but are made without any representation or guarantee or warranty of accuracy and are made with reservation of all patent rights. Our products are sold on the condition that the user will evaluate them, as well as our recommendations, to determine their suitability for his own purpose before adoption. Also, statements regarding the use of our products or processes are not to be construed as recommendations for their use in violation of any patent rights or in violation of any applicable laws or regulations. Liability under any condition shall be limited to replacement of material only. No liability is assumed or implied, for injury to personnel, labor costs, product loss or any other expenses incidental to the structure or operation of the plant and equipment where the system is being applied.