

Product Data Sheet

DESCRIPTION:

5500 Grout is a trowel-applied polyester at a minimum of 1/2" thickness. It is used to fill eroded areas, or create slope, prior to application of a 5000 and 6000 Series Systems. 5500 Grout can be installed up to 2" thick (multiple coats can be applied if a thicker mortar is required) and requires a short cure time before finish system application.

ADVANTAGES:

- Excellent Adhesion
- Compatible With All Milamar 5000 and 6000 Series Finish Systems
- Significantly Stronger Than Concrete Fill
- Short Cure Time – Quick Cure
- Prepackaged Easy To Use
- Applicator Friendly – Trowel Applied System

USES:

- Fill Damaged Areas
- Curbs and Pads
- Patch Machinery Footprints
- Slope to Drains

SUPPLEMENTAL PRODUCTS:

- ULTRAPRIME - Penetrating Moisture Cure Primer
- 5000 and 6000 Series - Finish Flooring Systems
- 6000 Series Linings - Finish Lining Systems

PACKAGING AND COVERAGE:

5500 Grout is packaged in UNITS – Areas to be grouted should be primed – first with Ultraprime - Roll ULTRAPRIME on floor at a rate of approximately 250 sq. ft. per gallon. Cure to a tacky finish (15-30 minutes depending on temperature). Prime the application area with 5 – 10 mils of the catalyzed 5500 Grout Resin.

5500 Grout Small Unit - 9 batches – covers approximately 61 square feet at ½ inch, or 2.55 cubic feet by volume - consists of –

- 1 - 5 gallon container - Part A (resin)
- 1 - 15 oz. container - Part B (catalyst)
- 9 bags – Part C – (chemical resistant aggregate)
- 1 set - measuring tools

5500 Grout Large Unit - 90 batches – covers approximately 612 square feet at ½ inch, or 25.5 cubic feet by volume - consists of –

- 1 - 55 gallon drum - Part A (resin)
- 1 container - Part B (catalyst)
- 90 bags - Part C (aggregate)
- 1 set - measuring tools

PROPERTIES:

Compressive Strength (ASTM C-579) <resin>:	14,000 psi	Bond Strength (ASTM C-321):	Greater than 350 psi; 100% concrete failure
Tensile Strength (ASTM D-638) <resin>:	9,500 psi	Working Time at 75°F (24°C) (ASTM C-308):	20-30 minutes
Shelf Life:	90 days	Solids by Content:	Weight: 100% Volume: 100%
Flexural Strength (ASTM C-580) <resin>:	16,000 psi	Colors:	Natural
VOC, mixed:	133 grams/liter	Maximum Depth of Pour:	1 inch (multiple 1 inch lifts can be applied)

SURFACE PREPARATION:

5500 Grout may be installed only on clean, sound substrates.

Concrete:

New concrete must be cured a minimum of 28 days. All coatings, oils, grease and unsound concrete must be removed. Concrete surfaces must then be acid etched, scarified or shot blasted to remove surface laitance. A good bonding tooth, the texture of 60 grit sandpaper, is desired for maximum adhesion, with removal of all surface glaze.

Metal Surfaces:

Blast the surface to near white SSPC-SP10-70 or NACE No. 2 using a Venturi blast nozzle with 100 psi air. The blasting media used shall be properly graded, clean, sharp, angular abrasive similar to Humble Abrasive Flint #7 (6-30) mesh, or Steel Grit (HG25).

MIXING:

Prior to mixing, materials should be stored at 60 - 75°F for at least 48 hours.

ULTRAPRIME - is a single component product, so it can be applied directly to the floor without mixing. Roll ULTRAPRIME on floor at a rate of approximately 250 sq. ft. per gallon. Cure to a tacky finish (30-45 minutes), and apply the 5500 Grout within 1 hour.

5500 Grout - using the pre-marked measuring container (supplied) measure 128 oz. (1 gallon by volume) of Part A. Based on substrate temperature, add the prescribed amount of Part B (peroxide) listed below -

60°-70°F - 2.0 fl oz. per gallon of Part A

70°-80°F - 1.5 fl oz. Part B per gallon of Part A

80°-90°F - 1.0 fl oz. Part B per gallon of Part A

Add the Part B to the Part A, and mix thoroughly for 2 minutes. Slowly add 2 bags of Part C and mix for 2 minutes.

Larger quantities – multiple batches of the 5500 Grout can be mixed in a mortar mixer.

APPLICATION:

Substrate temperature should be 60°-85°F during installation and for 96 hours thereafter for complete cure. Do not apply 5500 Grout when floor temperature is below 60°F. Roll ULTRAPRIME on floor at a rate of approximately 250 sq. ft. per gallon. Cure to a tacky finish (15-30 minutes depending on temperature). Prime the application area with 5 – 10 mils of the catalyzed 5500 Grout resin. Immediately apply the 5500 Grout Mortar by pouring the entire batch onto the floor and trowel smooth with a steel trowel. If primer becomes tack free, the area will need to be re-primed.

CURE TIME:

5500 Grout will harden to foot traffic in 2 hours at 75°F. Full cure and maximum physical property development will occur after 96 hours at 75°F.

CLEANUP:

Cured or hardened 5500 Grout will bond to practically all surfaces and is extremely difficult to remove. Clean all tools and mixer immediately after use with acetone or other solvent based cleaners.

SAFETY:

Avoid skin contact. If eye contact occurs, flush with water and consult a physician immediately. Keep work areas well ventilated. Never seal a container of mixed Part A and B as the continuing exothermic reaction may cause container to explode. 5500 Grout is manufactured using a styrene monomer, which will give off an odor during application. Customer is responsible for protecting employees and food products from these odors. Cured product poses no threat of odor contamination. 5500 Grout Material Safety Data Sheets are available upon request.

Limited Warranty

Milamar Coatings products are manufactured to be free of defects in material and workmanship in meeting the properties specified on its individual Product Data Sheets. Users and installers of Milamar Coatings products are solely responsible for determining the suitability of the products for specific product applications. Milamar Coatings makes no Warranty or Guarantee, express or implied, including warranties of fitness, design compatibility or merchantability, for any particular use and shall have no responsibility or liability, including direct, indirect or consequential damages, due to injury, delay or third party claims for installation or repair. Likewise, Milamar Coatings assumes no liability of any nature for products that are adjusted in the field or that do not utilize all specified Milamar Coatings components. Should any Milamar Coatings product be proved to be defective within one year from the date of shipment, Milamar Coatings will, at its sole discretion, replace the material; issue a credit to the customer's account; or provide a cash refund for the initial, paid purchase price of the material. Potential claims regarding product quality must be received in writing by Milamar Coatings within 30 days of the discovery of such potential defect. This Warranty is exclusive of all other warranties, expressed or implied, and may only be adjusted in writing, signed by an officer of Milamar Coatings, L.L.C.

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