

product data

SELECTION & SPECIFICATION DATA

TYPE & DESCRIPTION	GPS 703 Floor Coating is a water based epoxy floor surfacer created with a unique microporous structure that is breathable, water vapor permeable and is resistant to hot tire pick-up. It has superior performance with minimal VOC - < 50g/L.
ADVANTAGES	Cures quickly to form an impact and extremely abrasion resistant system, cured at temperatures as low as 50°F. Excellent adhesion to concrete, steel, and wood. Minimum down time. Sanitary, non-shrinking polymer. Easy to clean - USDA acceptable.
CHEMICAL RESISTANCE	Not affected by water, oil, brine, most acids, and alkalines. For specific recommendations, please refer contact GPS Technical Service.
USES	Can be used alone, or as part of a polymer system for resurfacing floors in food production plants, aisle ways, chemical spill containment area's, industrial production facilities, and pulp and paper mills.
GOVERNMENT AGENCY	Meets the requirements of the U.S. Department of Agriculture (USDA) for use as an incidental food contact flooring system.

FOR INDUSTRIAL USE ONLY!

PHYSICAL DATA	<p>Working Time - approximately 2 hours at 75°F.</p> <p>Potlife - approximately 5 hours at 75°F.</p> <p>Cure Time - hardens in 18 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.</p> <p>Volume Solids - 41%, mixed, may vary up to 2% by color.</p> <p>Weight Solids - 50%, mixed, may vary up to 2% by color.</p> <p>VOC (EPA Method 24) - <50g/L; 0.42 lb/gal, mixed. Flash Point - >230°F (110°C), Seta Flash, mixed.</p> <p>Finish - Satin - 15-25 Units @ 85°F.</p> <p>Abrasion Resistance - ASTM D4060 CS17 Wheel, 1000 Cycles, 1kg load - 150 mg loss</p> <p>Hardness (Shore D) (14 days) - 80</p> <p>Bond Strength on Concrete (psi) - 425 (Concrete Failure)</p> <p>Hot Tire Pick-up ITM @ 140°F (60°C) - Passes</p> <p>Mix Ratio - 4:1 by Volume - A:B</p> <p>Thin up to 10% with TAP Water for most applications.</p> <p>Slip Resistance - ASTM C1028, 0.60 Minimum Static Coefficient of Friction - Passes wet and dry without shark grip additive.</p> <p>Temperature Resistance - 350° F - dry service</p> <p>Colors - Standard Gray, Light Gray, Clear.</p>
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PACKAGING / COVERAGE	<p>703 Floor Coating -</p> <p>1 GALLON KIT - covers approximately 178 square feet at 9 mils - containing the following -</p> <ul style="list-style-type: none">1 container - Part A (resin)1 container - Part B (hardener) <p>5 GALLON KIT - covers approximately 892 square feet at 9 mils - containing the following -</p> <ul style="list-style-type: none">1 container - Part A (resin)1 container - Part B (hardener)
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SUPPLEMENTAL PRODUCTS	700 Floor Coating, 702 Scratch Coat, 732 Mortar, 740 Floor Surfacer
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SURFACE PREPARATION AND SUBSTRATES

SURFACE PREPARATION

New Concrete: must have a minimum of 14 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 3/32" or deeper should be prefilled prior to application of GPS 703. All surfaces must be dry prior to application of polymer system.

Metal Surfaces: Degrease surface prior to sandblasting. Use organic solvents, alkaline solutions, steam, hot water with detergents, or other systems that will completely remove dirt, oil, grease, etc. Blast the surface to near white SSPC-SP 10-70, or NACE No. 2 using a Venturi blast nozzle with 100psi air. To produce the 4 mil minimum anchor pattern or tooth, the blasting media used shall be a properly graded, clean, sharp angular abrasive similar to Humble Abrasive Flint S7 (6-30 mesh), Steel Grit (HG25), or Black Beauty (BB1040).

MIXING AND EQUIPMENT

MIXING

Mix Part A and B thoroughly, with a low rpm "jiffy" type mixer for 2 minutes until completely homogeneous. Thin up to 10% by volume with TAP Water.

Important! - The working life of the mixed blend is approximately 2 hours. Mixed materials remaining in a container will produce heat. Keep away from combustible materials. Do not reseal mixed containers!

APPLICATION AND SAFETY

APPLICATION

Caution! Application in direct sunlight, resulting in rising surface temperature, may cause blistering of the materials due to expansion of entrapped air or moisture in the concrete. Concrete surfaces that have been in direct sunlight must be shaded for 24 hours prior to application, and remain shaded until the initial set of the polymer. When the substrate temperature is rising, it is recommended to postpone application.

Application temperature range: Do not apply when substrate temperature is below 50°F or above 100°F. At least 5°F above dew point. Relative humidity - 85% maximum.

For application, the 703 Floor Coating & Hardener should be at a minimum temperature of 75°F. Always spread the material as soon as blended. The pot life is approximately 5 hours, and the working life is approximately 2 hours.

Spread the mixed system with a squeegee and back-roll with a medium (3/8") nap roller at a rate of 6-12 mils (133-266 square feet per gallon), per coat. A multiple coat system can be used for improved film continuity. Thin with 1 pint tap water per gallon, for most applications.

CURE TIME - Will harden in approximately 18-24 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.

CLEAN-UP - Cured or hardened 703 is almost impossible to remove. Clean tools and equipment immediately with hot soapy water.

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.