

product data

SELECTION & SPECIFICATION DATA

TYPE & DESCRIPTION	GPS 740 Surfacers is a water based urethane modified epoxy floor system created with a unique microporous structure that is breathable and water vapor permeable. It has superior performance with zero VOC.
ADVANTAGES	Cures quickly to form an impact and extremely abrasion resistant system, cured at temperatures as low as 45°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	Typical used 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	Working Time - approximately 30 minutes at 75°F. Potlife - 20-30 minutes at 75°F. Cure Time - hardens 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. Water Vapor Permeability - 6.67×10^{-7} Water Vapor Transmission - 9.75×10^{-4} (approximately 100x the water vapor permeability and water vapor transmission of standard cycloaliphatic epoxy floor coating.) Hardness (Shore D) (14 days) - 80 Bond Strength on Concrete (psi) - 500 (Concrete Failure) Temperature Resistance - 350° F - dry service Colors - Natural, Gray, Red (Broadcast aggregate).
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PACKAGING / COVERAGE	740 Surfacers - Kit - covers approximately 35 square feet at 1/4 Inch - containing the following - 1 containers - Part A (resin) 1 container - Part B (hardener) 1 Bag - Part C (chemical resistant aggregate) 50# (1 bag) - Part D (chemical resistant broadcast aggregate)
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SUPPLEMENTAL PRODUCTS	701 Deep Penetrating Primer/Sealer, 700 Floor Coating, 702 Floor Coating / Scratch Coat
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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
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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 740 Surfacer. 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

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 2 minutes - until completely homogeneous. Note - Person mixing should wear a dust mask or respirator.

Important! - The working life of the mixed blend is approximately 30 minutes. Mixed materials remaining in a container will produce heat. Keep away from combustible materials. Do not reseal mixed containers!

APPLICATION AND SAFETY

APPLICATION

FLOOR SURFACER / MORTAR: Pour the entire batch onto the floor in a ribbon approximately 10" wide. Spread evenly with a screed rake, and back roll with a spiked roller to smooth any irregularities in the film. Leaving a wet edge for the next batch, broadcast the Part D aggregate into the freshly leveled surface. Repeat process until entire floor is covered. After the 740 has cured, sweep off excess Part D aggregate and topcoat with specified topcoat.

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. Apply smooth to meet adjoining floor level. Do not use a feather edge.

CURE TIME - Greenstone 740 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.

CLEAN-UP - Cured or hardened Greenstone 740 is almost impossible to remove. Clean tools and equipment immediately with hot soapy water.

Minimum application temperature: Do not apply when substrate temperature is below 40°F.

For application, the 740 Surfacer & Hardener should be at a minimum temperature of 75°F. Always spread the material as soon as blended. The pot life is approximately 20-30 minutes, and the working life is approximately 30 minutes.

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.