

product data

SELECTION & SPECIFICATION DATA

TYPE & DESCRIPTION	150 TFE is a 100% solids epoxy high build topcoat, formulated with exceptional release properties and corrosion protection, while providing a tough wear-resistant surface.
ADVANTAGES	Cures quickly to form an exceptionally tough, surface release, impact and 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 to Greenstone's Chemical Resistance Guide, or contact Technical Service.
USES	Used as part of a polymer system for interior and exterior of tanks, walls, columns, curbs, pump pads, equipment and structural steel.
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	Compressive Strength - 11,500 psi Tensile Strength - 2,300 psi Impact Strength - 100 in./lbs. Indentation - No indentation MIL-D-3134F Abrasion Resistance - 65 milligrams ASTM D-1044 Maximum Temperatures - Wet Exposure 160°F, Dry Heat 250°F Shelf Life - 1 Year (warehouse conditions) Working Time - approximately 40 minutes at 75°F. Potlife - approximately 25 minutes at 75°F. Cure Time - hardens in 12-16 hours at 75°F. The warmer the temperature, the faster it cures. Allow a minimum cure of 48 hours for light traffic, and 120 hours for heavy traffic loads and chemical spillage. Colors - Standard Gray.
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PACKAGING / COVERAGE	150 TFE Topcoat - 1 GALLON KIT - covers approximately 100 square feet at 16 mils - containing the following - 1 container - Part A (resin) 1 container - Part B (hardener) 3 GALLON KIT - covers approximately 200 square feet at 16 mils - containing the following - 1 container - Part A (resin) 1 container - Part B (resin)
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SUPPLEMENTAL PRODUCTS	100 Floor Coating, 150 Coating, 160 Block Filler, all 300 series epoxy flooring systems.
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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 1/4" or deeper should be prefilled with 350 grout, or a similar system, prior to application. 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. *Product must be thinned 10% to 20% with MEK for roller or spray application.

Important! - The working life of the mixed blend is approximately 50 minutes. Mixed materials remaining in a container will produce heat. Keep away from combustible materials. Do not reseal mixed containers! Add 150TFE Solvent for spray applications and mix well.

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.

Minimum application temperature: Do not apply when substrate temperature is below 50°F.

For application, the 150 TFE Topcoat resin & hardener should be stored at a minimum temperature of 70°F. Always apply the material as soon as blended. The pot life is approximately 35 minutes, and the working life is approximately 50 minutes.

APPLICATION - 150 TFE Topcoat can be applied by spray, brush, or roller. Recommended for immersion applications, at 8-10 mils over standard 150 Coating.

Spray: Use a Graco King 45 to 1 type, hydrospray pump, Model 208-311. High pressure 3/4" inside diameter nylon hose not to exceed 25 feet. All hoses rates 6000 psi. Inlet pressure to the pump shall be 100 psi. Thin the material 15%-30% by volume, based on temperature with the 150TFE Solvent.

Brush: A high quality natural bristle brush should be used.

Roller: Use a 3/8" nap roller with phenolic core.

CURE TIME - Will harden in approximately 12-16 hours at 75°F. The warmer the temperature, the faster the cure. Allow 48 hours, at 75°F, for light traffic, and 120 hours for full cure.

CLEAN-UP - Cured or hardened 150 TFE is almost impossible to remove. Clean tools and equipment immediately with hot soapy water, or a mixture a 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.