GREENSTONE Polymer Systems Inc.

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Greenstone 260 HT Liner System

product data

SELECTION & SPECIFICATION DATA

TYPE & DESCRIPTION

260 HT Liner is a 100% solids epoxy system, used to protect vertical surfaces subject to chemical attack in High Temperature applications. Applied at 1/8" nominal film thickness.

ADVANTAGES

Cures quickly to form an exceptionally tough, impact and abrasion resistant system. 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 resurfacing 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

Compressive Strength, ASTM D695 - 13,500 psi
Modulus of Elasticity, ASTM D695 - 1.312 X 10^{6}
Tensile Strength, ASTM D638 - 1,920 psi
Flexural Strength, ASTM D790 - 5,300 psi
Thermal Coefficient of Linear Expansion, ASTM D696 - 9.16 X 10^{-6} in/in/°F.
Bond Strength, ASTM C-321 - Greater than 350 psi (100% substrate failure).
Impact Strength - 130 in/lbs.
Indentation - MIL-D-3134F - No Indentation
Water Absorption - ASTM C-413 - 0.047%
Shelf Life - Minimum 12 months when storage temperature is between 70°F and 85°F.
Working Time - approximately 35 minutes at 75°F.
Potlife - approximately 20 minutes at 75°F.
Cure Time - Greenstone 260 HT Liner will harden within a few 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.
Flammability - Does not support combustion
Solids - 100%
Colors - Charcoal

PACKAGING / COVERAGE

260 HT Lining System - components sold separately -

260 HT Primer - 1 QUART - covers approximately 50 square feet at 8 mils -
1 container - Part A (resin), 1 container - Part P (hardener)

260 HT Liner - 1 BATCH - covers approximately 12.5 square feet at 1/8"
1 container - Part A (resin), 1 container - Part B (hardener), 1 BAG - Part C (chemically resistant aggregate)

260 HT Liner - 2 BATCH - covers approximately 25 square feet at 1/8"
1 container - Part A (resin), 1 container - Part B (hardener), 2 BAGS - Part C (chemically resistant aggregate)

260 HT VeilCoat - 1 QUART - covers approximately 50 square feet at 8 mils -
1 container - Part A (resin), 1 containter - Part B (hardener)

SUPPLEMENTAL PRODUCTS

150 HT Topcoat

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 multiple coats of 260 HT Liner, 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

Primer - Mix Part A and B thoroughly and spread evenly at approximately 8 mils (200 square feet per gallon).

Mortar - 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.

Veilcoat - Mix Part A and B thoroughly and spread evenly at approximately 8 mils (200 square feet per gallon).

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

Kol Mixal
Div. of Man U Fab Inc.
7740 Main St. N.E.
Minneapolis, MN 55432

Quick Stir, INC.
P.O. Box 327
Port Clinton, Ohio 43452

Important! - The working life of the mixed blend is approximately 20 minutes. Always pour mixed batches as soon as possible. Mixed materials remaining in a container will produce heat. Keep away from combustible materials. Do not reseal mixed containers!

APPLICATION AND SAFETY

APPLICATION

PRIMER: Apply approximately 8 mils of Primer by brush or roller. Spread the mortar immediately, before the Primer has hardened, which will occur in approximately 60-80 minutes at 75°F.

LINER: Place mortar on a mud board and then take a small amount on the center of a trowel. Spread mortar evenly over the surface firmly, and in long, even strokes, spread the material over the primed surface. Fill in low spots as you go. Remove any surface marks by quickly passing over the mortar surface with light pressure. A quality "swimming pool" finishing trowel, such as Goldblatt or Marshalltown, is recommended.

VEILCOAT: Apply approximately 8 mils of veilcoat by brush or roller.

CURE TIME - 260 HT Liner 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 260 HT Liner 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.