



Greenstone 301 LV Penetrating Primer / Sealer

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product data

SELECTION & SPECIFICATION DATA

TYPE & DESCRIPTION	301 LV Penetrating Primer / Sealer is formulated for maximum penetration into concrete substrates.
ADVANTAGES	Cures quickly to form an exceptionally tough, impact and abrasion resistant primer / sealer. Excellent adhesion to concrete. 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 contact Greenstone Technical Service.
USES	Used alone or as part of a penetrating 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>Compressive Strength, ASTM D695 - 11,500 psi (resin) Tensile Strength, ASTM D638 - 1,700 psi (resin) Flexural Strength, ASTM D790 - 3,500 psi (resin) Thermal Coefficient of Linear Expansion, ASTM D696 - 1.2×10^{-5} 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 80 minutes at 75°F. Potlife - approximately 60 minutes at 75°F. Cure Time - 301 LV Penetrating Primer will harden in 10-14 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 Moisture Tolerance in Concrete - With proper surface preparation and maximum penetration at a minimum substrate temperature of 75°F - 10#. Solids - 100%</p>
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PACKAGING / COVERAGE

- 301 LV Penetrating Primer**
- 1 QUART KIT - covers approximately 50 square feet at 8 mils - containing the following -**
 - 1 container - Part A (resin)
 - 1 container - Part B (hardener)
 - 1 GALLON KIT - covers approximately 200 square feet at 8 mils - containing the following -**
 - 1 container - Part A (resin)
 - 1 container - Part B (resin)
 - 2 GALLON KIT - covers approximately 400 square feet at 8 mils - containing the following -**
 - 1 container - Part A (resin)
 - 1 container - Part B (resin)

SUPPLEMENTAL PRODUCTS

330 Primer, 330 Mortar, 350 Grout, 300 Coving, 100 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

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.

Important! - The working life of the mixed blend is approximately 45 minutes at 75°F. Mixed materials remaining in a container will produce heat. Keep away from combustible materials. Do not reseal containers!

APPLICATION AND SAFETY

APPLICATION

PRIMER: Pretreat any visible cracks in the concrete substrate with the 301 LV Penetrating Primer. Allow to cure, and re-apply using the same method, until the 301 LV Penetrating Primer no longer visibly quickly penetrates the crack. Apply approximately 8 mils of Primer / Sealer by brush or roller over the entire surface (approximately 200 square feet per gallon).

CURE TIME - 301 LV Penetrating Primer will harden in 8-10 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 301 LV Primer / Sealer 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.