

301-SL PumaCRETE® is a flowable, resurfacer. It is designed to resurface damaged floors in facilities with heavy traffic, including warehouses and production areas. It may also be used for pre-patching prior to resurfacing, and patching depressions, dovots/holes in commercial and industrial facilities.

COMPOSITION

Water dispersed polyurethane resin system combined with graded silica aggregates; no objectionable odor.

APPEARANCE

Standard finish: smooth, matte finish
May be applied with quartz/nonskide texture for ramps, wet areas, or other custom applications.

DURABILITY

Resistant to wear from pallet jacks, carts, and heavy fork truck traffic.

WATER AND MOISTURE TOLERANCE

Handles up to 25 lbs of water vapor transmission and over 99% concrete internal RH. The materials/flooring function as a vapor permeable, mitigation system.

SUBSTRATES

Concrete, asphalt tile, vinyl tile, mastic, wood and structurally sound substrates including cement board, plywood, brick, polymer cement screeds (such as Cement-All by RapidSet Co.).
Ceramic or quarry tile (must be abraded).

SURFACE PREPARATION

Ensure surfaces are clean and dry. If possible, chemically remove wax compounds, and loose or unsound materials. Shot blast or other mechanical preparation recommended.

APPLICATION CONDITIONS

(Range 35-85° F) Ideal working temperature is 70 deg° F

PACKAGING

301-SL® is manufactured in pre-measured, easy to use units. *If using a partial unit, the resin component should be pre-mixed, before proportioning.* Then materials can be proportioned based on volume.

RESIN: 1 pre-measured container 301 resin (146 oz)

HARDENER: 1 pre-measured container 301 hardener (110 oz)

AGGREGATE: 1 bag SL aggregate (25 lb)

Note: Up to 1.5 gal of 20/40 mesh silica may be added per unit, for enhanced body and build thickness, up to 3/8 inch.

OPTIONAL: Added slip resistance- Broadcast graded quartz aggregate 40/60 or 20/40 mesh (50 lb bag).

MIXING

1. One pail 301-RESIN
2. Tint: mix into resin 30 seconds (see amount below)
Black: 5 oz black powder tint
All Other Colors: 8 oz PumaCOLOR liquid tint.
3. One pail 301-HARDENER
MIX FOR 30 SECONDS using eggbeater/birdcage type paddle.
4. Slowly add one bag SL aggregate (25 lb), and mix until all aggregate is absorbed (approx. 1 minute).
IMMEDIATELY POUR OUT 100% OF CONTENTS
5. **OPTIONAL THICKER APPLICATION:**
Add up to 1.5 gal of 40/60 mesh silica may be added per unit, for application over 1/4 inch.

APPLICATION

Spread at 0-3/8 inch with flat 4"x12" or similar trowel. Looped/textured roller should be used to level the material.

COVERAGE

Rates shall decrease over rough surfaces. Always check your coverage rate during install, to ensure you are getting proper coverage.

VOLUME: 0.62 cubic feet/unit

TYPICAL THICKNESS: zero to 1/4 inch (*may be built up to 3/8 inch or more, with quartz aggregate extender.*)

SPREAD RATES:

1/16 inch	80 ft ² /unit
1/8 inch	60 ft ² /unit
3/16 inch	30 ft ² /unit

OPTIONAL TOP COATS

- 401-TF (matte finish)
- 107-PumaPOXY (gloss finish)
- 108-PumaSpartic (semi-gloss)

JOINT TREATMENT

Moving joints in the substrate must be honored in the PumaCRETE. Joints in new concrete and expansion joints (in general, >1/4-inch wide, must be treated as a moving joint, and must be sawcut 40% of depth, and filled with backer rod and flexible 2-part joint sealant.

SPECIFICATION DETAIL

Please refer to Engineering/Architectural Details.

MAINTENANCE (see Puma-Crete Cleaning Instructions)

Regular cleaning of the applied system is recommended in order to maintain slip resistant properties and cosmetics. Normal proprietary cleaning agents w/ standard auto floor scrubber. Waxing may be employed, for enhanced shine and cleanability.

COLORS AVAILABLE

Standard colors: Tile Red, Gray, Black

Additional colors available; see Puma-Crete color chart.

TECHNICAL DATA

Compressive Strength	ASTM C579	8,820 psi
Thermal Distortion	Passing up to	270 dF
Therm. Coeff. of Therm. Expansion	ASTM C531	1.5x10e5
Density	ASTM C905	130 pcf
Water Absorption	MIL-PRF-3134	0.64%
Hardness Durometer "D"	ASTM D2240	85-90
Adhesion 100% failure in concrete	ASTM D4541	400psi
Flammability-Critical Radiant Flux	ASTM E648	1.07 watts/sq cm
Flammability	ASTM D635	Self Extinguishing
Tensile strength:	ASTM C307	4,785 psi
Flexural strength:	ASTM C580	9,840 psi
Shear Strength	ASTM D732	4,965 psi
Abrasion resistance (method A)	ASTM C779	.020 in @ 60 min
Impact Strength	ASTM D4226	>160 in-lb
VOC	ASTM D3960	.083 lb/gal
Coefficient of Friction		> 0.60

HEALTH AND SAFETY

Water based and 0 gram VOC/Liter product system.

SHELF LIFE: 1 year from date of manufacture (un-opened).

CONDITIONS OF USAGE:

Installation of all products purchased must be by professional installers periodically published by PUMA-CRETE or otherwise approved by PUMA-CRETE in writing. Modification to any of PUMA-CRETE's products voids the warranty. The installer shall maintain a written contemporaneous record of field conditions (including, without limitation, surface and atmospheric conditions, usage rates, and lot numbers of products installed). PUMA-CRETE reserves the right of inspection of any installed product, installation and maintenance records and records of field conditions and may conduct additional testing as is reasonably required to investigate any warranty claims. Warranty shall only apply for products or materials that have been paid for in full. This writing constitutes the sole and only agreement of warranty relating to PUMA-CRETE products.