



301-SL PumaCRETE® is a highly flowable, floor patching and re-surfacing material. It is designed to repair damaged floors in facilities with heavy foot and cart traffic. It is suitable for patching chipped VCT, depressions, other holes in tile floors at USPS and other 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 rough quartz texture for ramps, wet areas, or other custom applications.

DURABILITY

Resistant to wear from pallet jacks and carts, commonly found in U.S. Postal Service facilities.

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.

APPLICATION CONDITIONS

(60-85° 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 weight or 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 40/60 mesh silica may be added per unit, for enhanced body and build thickness, up to 3/8 inch.

OPTIONAL: BROADCAST QUARTZ 40/60 or 20/40 mesh 50 lb bag.
(if added slip resistance is required for wet areas or ramps)

MIXING

1. One pail 301-RESIN
2. pumaCOLOR tint: mix into resin 30 seconds (see amount below)
Black: 6 oz black powder tint
All Other Colors: 8 oz PumaCOLOR liquid tint.
3. 1 pail 301-HARDENER
MIX FOR 30 SECONDS using eggbeater/birdcage type paddle.
4. Slowly add 1 bag SL aggregate (25 lb), and mix until

all aggregate is absorbed (approx. 1 minute).
IMMEDIATELY POUR OUT 100% OF CONTENTS (scrape out materials on inside of pail with trowel as needed).
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/Texture Roller may 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

SPREAD RATES:

1/16 inch 80 ft² /unit

1/8 inch 60 ft² /unit

3/16 inch 30 ft² /unit

THICKNESS:

Typical: zero to ¼ inch

(may be built up to 3/8 inch or more, with quartz aggregate extender.)

OPTIONAL TOP COATS

401-TF (matte finish)

107-PumaPOXY (gloss finish)

MAINTENANCE

Regular cleaning of the applied system is recommended to maintain slip resistance and appearance. See *PumaCRETE Cleaning Guide*.

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
Resistance to Fungi Growth	ASTM G21	Rating of 1, passes
Coefficient of Friction		> 0.60

HEALTH AND SAFETY

Water based and 0 gram VOC/Liter product system. Please read the safety data sheets, for further detailed information on safe handling and use of this product.

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.