



DESCRIPTION

401-TF is a versatile, roller applied primer and topcoat. It can be used as a primer for other PumaCRETE flooring products, or as an encapsulant over mastic, prior to additional floor coverings. As a primer, it can be applied as a composite with fiberglass reinforcement (401-TF Composite), when applying 401-ECO topping over it.

COMPOSITION

Non toxic, water dispersed cementitious polyurethane resin system. Can be combined with 1.5 oz chopped strand fiberglass mat (401-TF Composite).

HEALTH & SAFETY

This is a water based and 0 gram VOC/Liter product system. Virtually odorless and non toxic. Please read the safety data sheets, for further detailed information on safe handling and use of this product.

APPEARANCE

Matte finish.

SLIP RESISTANCE

Coefficient of Friction >.6 (slip resistant per ADA requirements).

WATER AND MOISTURE TOLERANCE

Handles up to 15 lbs of water vapor transmission and over over 99% concrete internal RH. The flooring functions as a vapor permeable, mitigation system.

THICKNESS

Typical 6-8 mils dft

COMMON SUBSTRATES

Power Lift Areas (heavy traffic): Concrete, structurally sound toppings including cement board, plywood, ceramic & quarry tile, brick, and polymer reinforced screeds equal to Cement-All.

SPECIAL SUBSTRATES

PumaCRETE® 401-TF Composite (with fiberglass reinforcement) shall be required for customized applications such as asphalt plank or mastic coated substrates*

* **Areas with these types of substrates are not recommended or warranted for power lift traffic.**

For other custom applications, laboratory adhesion testing may be required, to determine suitable adhesion. Contact PumaCRETE technical support for more information.

SURFACE PREPARATION

Typically, a clean and dry surface is all that is required for application of PumaCRETE® 401-TF. For **forklift and heavy load power jack areas**, we recommend a hard, rough profiled substrate, for proper adhesion.

APPLICATION CONDITIONS

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

STORAGE

Materials are freezable, and therefore must be stored above 35 deg F. Optimum storage temperature is 70 deg F, prior to use.

APPLICATION

PRIMER or TOP COAT: pour in a ribbon and spread with a squeegee, then rolled with 3/8" nap roller. Optional fiberglass mat may be embedded into the primer coat (401-TF Composite) for additional strength.

When used as a primer, broadcast a layer of graded quartz sand (20/40 or 40/60 mesh) into the wet primer, to rejection. This shall ensure maximum adhesion for following coat.

COVERAGE RATES

one unit = 150-200 sq ft (depending on roughness of substrate)

CURE SCHEDULE @70 deg F

12 hours foot traffic, 24 hrs full cure *catalyst available for faster curing, if required.

PACKAGING

1 pre-measured unit: 1 pail 401-TF Resin + 1 pail 401-TF Hardener + 1 bag 401-TF aggregate/powder + 6 oz liquid PumaColor pigment (or 6 oz PumaTINT powder tint).

COLORS AVAILABLE

Standard colors are: Black, Tile Red and Gray

(premium colors are available)

caution: lighter colors shall readily fade and discolor from UV light

MAINTENANCE

Regular sweeping, mopping or floor scrubber may be employed. Surface may be waxed with any type of floor wax, such as acrylic floor finish, to provide shine and increased cleanability. Waxing is not required to maintain surface or extend life, due to high abrasion resistance.

PHYSICAL PROPERTIES 401-TF Composite system

Tensile Strength	ASTM C507	4,900 psi
Flexural Strength	ASTM C580	3,600 psi
Shear Strength	ASTM C732	5,100 psi
Abrasion resistance (method A)	ASTM C779	.019 @ 60 min
Thermal Distortion	Passing up to 160 deg F	
Coeff. of Thermal Expansion	ASTM C531	1.5 x 10 ⁻⁵
Water Absorption	MIL-PRF-3134	0.64%
Hardness	ASTM D2240	90 Durometer "D"
Adhesion	ASTM D4541	400 psi 100% failure in conc.
Flammability-Crit Rad Flux	ASTM E648	1.07 Watts/sq cm
Flammability	ASTM D635	Self Extinguishing
Impact Strength	ASTM D4226	> 160 in-lb
VOC	ASTM D3960	0 lb/gal
Coefficient of Friction		>.6

WARRANTY

PumaCRETE® 401-TF materials have a limited warranty. See terms and conditions of the warranty below.

TERMS OF WARRANTY: 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.