115 PumaFLEX™

Elastomeric Hybrid Epoxy & Waterproofing Membrane

PRODUCT DESCRIPTION

115 PumaFLEX is a uniquely versatile elastomeric hybrid epoxy and waterproofing membrane. It is a clear, two-component, low-odor, 100% solids material specially engineered to stay flexible and soft, with good bridging capacity for horizontal joint or substrate movement of up to 1/8" without fracturing the 115 PumaFLEX material.

FEATURES & BENEFITS

- Low odor
- Built-in adhesion promoter
- Good elastomeric properties
- Tintable using 120 PumaCOLOR tint
- May be used as a non-sag, semi-rigid joint or moving-crack filler (see Joint and Crack Guidelines)

TYPICAL USES

- Semi-rigid joint filler
- Waterproofing membrane for:
- Mechanical rooms
- Wood decks
- Slabs-on-deck
- Parking garages
- Pedestrian decks
- Locker rooms/showers

LIMITATIONS

- Best suited for application at temperatures between 60°F and 90°F.
- 115 PumaFLEX is not designed to be applied as a finish or wear coat.
- It is light-sensitive and will amber over time; it requires a UV-stable topcoat.

PRELIMINARY FLOOR INSPECTIONS

Check the concrete

Concrete must be structurally sound and free of curing membrane, paint, or other sealer. If you suspect the concrete has been previously sealed, call PumaCRETE technical support for further instructions.

Check for moisture

Concrete must be dry before application of this floor coating material, and concrete moisture testing must occur. Calcium chloride testing (ASTM F1869-11) or in-situ relative humidity testing (ASTM F2170-11) is recommended; test methods can be purchased at www.astm.org, or follow the manufacturer's instructions. Readings must be below 3 lbs/1,000 sq ft/24 hrs (ASTM F1869-11) or 75% internal relative humidity (ASTM F2170-11).

Although testing is critical, it is not a guarantee against future problems — especially if there is no vapor barrier, the vapor barrier is not functioning properly, or you suspect concrete contamination from oils, chemical spills, or excessive salts.

PHYSICAL CHARACTERISTICS

Solids (by wt.)	100%
Mix Ratio (by vol.)	1 part Resin : 1 part Hardener + (optional) 2 parts PumaTHICKENER
Viscosity @ 70°F	1,200 cps
Pot Life @ 70°F	30 minutes
Cure Time, Tack-Free @ 70°F	14–18 hrs foot traffic
Working Time @ 70°F	30 minutes
Recoat Window	Maximum of 36 hours
Coverage Rate	Min. 20 mils, 80 sq ft/US gal, applied as elastomeric membrane
VOC	Nil

APPLICATION RANGE

A gallon of 115 PumaFLEX covers at a standard spread rate of **20–30 mils, or 53–80 sq ft per gallon**.

Body coat thickness varies depending on the condition of the substrate and the type of system.

PRODUCTS GUIDE

1. 115 PumaFLEX Resin

A versatile 1:1 elastomeric hybrid epoxy designed with exceptional built-in resiliency and functionality. With its low viscosity, it is easily applied when combined with 115 PumaFLEX Hardener.

2. 115 PumaFLEX Hardener

Allows moderate working and cure time when combined with 115 PumaFLEX Resin.

PRELIMINARY FLOOR INSPECTIONS (CONTINUED)

Check the temperature and humidity

Floor and material temperatures should be between 60°F and 90°F. Humidity must be less than 95%. **Do not coat unless the floor temperature is more than five degrees above the dew point.**

SURFACE PREPARATION

This product requires preparation in order to perform as expected. The substrate must be mechanically profiled (ASTM D4259-83), clean, sound, and dry.

JOINT & CRACK GUIDELINES

Depending on preference, joints may or may not be filled.

Non-moving joints/cracks (filling)

Non-moving joints can be treated with 117 Cove Resin with 107 PumaPOXY hardener (3 parts resin : 1 part hardener).

Moving joints (filling)

These may be filled with 115 PumaFLEX resin/hardener.

Moving cracks or joints

Use PumaTHICKENER (Solka-Floc) powdered cellulose to thicken 115 PumaFLEX to a non-sag consistency. In general, add 2 qts PumaTHICKENER for each 1-quart mix of PumaFLEX. Re-mix and apply using a flexible putty knife.

MIXING INSTRUCTIONS

Application equipment

- PPE and clothing per SDS
- Jiffy® mixer blade (ES model)
- Clean mixing container
- Low-speed / high-torque drill
- Shed-resistant roller cover, 3/8" nap
- Application squeegee

Mix ratio: 1 part Resin : 1 part Hardener by volume

8 oz of PumaCOLOR colorant is recommended per gallon of material (see product label). When field pigmenting, mix it homogeneously into the resin before adding the hardener.

When combining, add the hardener to the clean mixing container first, then add the resin (clear or pigmented), scraping out the container. Always pour into the center of the mixing container. Mix the components thoroughly for 1–2 minutes with a Jiffy ES-style mixing blade. Mix only as much material as can be applied without exceeding the pot life.

COLORS & OPTIONS

Colors	See "Color Guide" for 120-PumaCOLOR tint
Optional	120-PumaCOLOR tint (on-site pigmenting); quartz sand broadcast; 114 PumaFLAKE colored flake/chips

PACKAGING

Kits	2 or 10 gal kits, 1R:1H
Resin	5 gal white pail; 1 gal metal pail
Hardener	5 gal black pail; 1 gal black pail
Bulk	50 gal drum

STORAGE & SHELF LIFE

Storage	Indoors, 60°F to 90°F
Shelf Life	One (1) year from date of manufacture

TECHNICAL SUPPORT

For any application questions, please call PumaCRETE technical support at 857-226-8247.

DISPOSAL

Dispose of in accordance with federal, state, and local regulations.

CARE & MAINTENANCE

Cleaning guidelines

Allow the floor coating to cure at least one week before cleaning by mechanical means (e.g., sweeper, scrubber, disc machine).

Care

Proper maintenance will increase the service life and help maintain the appearance of your new PumaCRETE floor coating system. This is considered a low-maintenance coating system; however, certain textures and service environments require specific procedures. See the PumaCRETE "Cleaning Guidelines" for more information.

PHYSICAL PROPERTIES

Property	Test Method	Result
Hardness (Shore A)	ASTM D-2240	60
Tear Strength, PIT	ASTM D-1004	74
Tensile Strength	ASTM D-412	1,200 psi
Tensile Elongation	ASTM D-412	300%
Adhesion to Concrete	ASTM D-4541	>400 psi, substrate fails
Impact Resistance	ASTM D-2794	>160 in/lb
Water Absorption	ASTM D-570	<0.1%
Flame Test	ASTM D-648	Class 1

CARE & MAINTENANCE (CONTINUED)

Caution

Avoid scratching or gouging the surface — all floor coatings will scratch if heavy or sharp objects are dragged across them. Do not drop heavy or pointed items on the floor, as this may cause chipping or concrete pop-outs where the substrate cap is weak.

Rubber tires can permanently stain the floor coating through plasticizer migration; in warehouse and industrial settings, non-marking tires are highly recommended. Rubber burns from quick stops and starts can heat the coating to its softening temperature, causing permanent marking.

SAFETY (SDS)

Please see the Safety Data Sheet (SDS) for safety and precautions. Use product as directed. **Keep out of the reach of children.**

WARRANTY

Seller warrants that its goods, as described on the face hereof, are free from any defects in material or workmanship. Seller makes no other warranty, express or implied, and all implied warranties of merchantability and fitness for a particular purpose are hereby disclaimed. Seller shall not be liable for prospective profits or special, indirect, or consequential damages. Seller's sole liability and buyer's exclusive remedy for breach of any warranty is expressly limited, at seller's option, to replacement at the original F.O.B. point or refund of the purchase price. Seller shall not be responsible for any claim resulting from failure to use the product in the manner in which it was intended and in accordance with the instructions provided for its use. Any claim for breach of warranty shall be deemed waived unless buyer gives seller written notice of such claim within sixty (60) days after delivery and allows seller reasonable opportunity to investigate the claim and inspect the product.