"High Performance Industrial Flooring"

108 PumaSPARTIC™

High Solids Aliphatic Polyaspartic Coating

PRODUCT DESCRIPTION

108 PumaSPARTIC is a low-odor, high solids, aliphatic polyaspartic coating designed for use as a clear or pigmented, UV-stable intermediate, grout, and topcoat. It is ideal as a seal coat for decorative finishes.

108 PumaSPARTIC provides good chemical, stain, and abrasion resistance. The resin component is available in standard and fast-cure options.

FEATURES & BENEFITS

- No VOC, low odor
- UV stable
- Standard or fast-cure options for fast-track projects
- Low-temperature curable
- Clear, high gloss for decorative finishes
- Thin/thick applicable
- Pigmented or clear
- Good temperature resistance
- Outstanding resistance to abrasion and wear
- PumaBLOK antimicrobial

TYPICAL USES

- Manufacturing plants
- Food and beverage processing
- Warehouses
- Coolers
- Pharmaceutical plants
- Clean rooms
- Any commercial or industrial floor needing fast-curing coatings

LIMITATIONS

- Best suited for application at temperatures between 35°F and 85°F, with relative humidity below 85%.
- When using 108 PumaSPARTIC as a primer, take extra precautions with substrate preparation and moisture content.
- Some light colors may require multiple coats for adequate hiding power. Certain colors appear white when scratched.
- Slight batch-to-batch color variations may occur. When ordering to match a previous color, ask whether the same batch number or quality control number is still available.

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.

PHYSICAL CHARACTERISTICS

Solids (by wt.)	85%
Mix Ratio (by vol.)	1 part Resin : 1 part Hardener
Viscosity @ 70°F	800 cps (average)
Cure Time @ 70°F, 50% RH	F-Resin: 2–3 hrs foot traffic; 12 hrs full traffic S-Resin: 8–10 hrs foot traffic; 24 hrs full traffic
Working Time @ 70°F, 50% RH	F-Resin: 15 minutes S-Resin: 25 minutes
Recoat Window	Maximum of 24 hours
Service Temperature	Up to 230°F
Coverage Rate	20 mils, 80 sq ft/US gal; 6 mils, 267 sq ft/US gal
VOC	Nil

COVERAGE RATE

A gallon of 108 PumaSPARTIC covers at a standard spread rate for a finish topcoat of **6–20 mils, or 80–267 sq ft per gallon**.

Body/grout coats and topcoats vary in thickness depending on the condition of the substrate and the type of system.

PRODUCTS GUIDE

1. 108 PumaSPARTIC F-Resin

Provides an accelerated cure for fast-track systems needing quick return to service or recoats. Low-temperature applicable down to 35°F. Combined with 108 PumaSPARTIC Hardener at a 1:1 mix ratio, it can be applied from 6–20 mils.

2. 108 PumaSPARTIC S-Resin

Provides a longer working time, making it ideal for applications at higher ambient temperature and humidity. Combined with 108 PumaSPARTIC Hardener at a 1:1 mix ratio, it can be applied from 6–20 mils.

PRELIMINARY FLOOR INSPECTIONS (CONTINUED)

Check for moisture

Concrete must be dry before application of PumaCRETE floor coating materials, 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. When installed directly on the concrete substrate, 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.

Check the temperature and humidity

108 PumaSPARTIC is sensitive to moisture and temperature during application and curing. Floor and material temperatures should be between 35°F and 85°F. Humidity must be less than 85%. **Do not coat unless the floor temperature is more than five degrees above the dew point.**

RECOAT REQUIREMENTS

For a recoat application beyond 36 hours, lightly grind the existing topcoat with 100-grit diamonds, vacuum, and tack-wipe before re-application. Please call PumaCRETE technical support for further instructions.

JOINT GUIDELINES

Depending on preference, joints may or may not be filled. If joints are filled, non-moving joints (i.e., contraction or control joints) can be treated with 115 PumaFLEX with PumaTHICKENER, or with 116 PumaMENDER 1:1 hard-and-fast urea filler for fast-track applications.

Coating applied over filled joints may crack if there is concrete movement.

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

8–16 oz of 120-PumaCOLOR tint 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 minute with a Jiffy ES-style mixing blade. Mix only as much material as can be applied without exceeding the pot life.

PRODUCTS GUIDE (CONTINUED)

3. 108 PumaSPARTIC Hardener

Used with BOTH the 108 PumaSPARTIC S-Resin and F-Resin at a 1:1 mix ratio.

COLORS & OPTIONS

Colors	See "PumaCRETE Color Guide"
Optional	120-PumaCOLOR colorants (on-site pigmenting); PumaBLOK (antimicrobial)

PACKAGING

Resin	1 gal metal pail
Hardener	1 gal black pail

STORAGE & SHELF LIFE

Storage	Indoors, 60°F (16°C) to 90°F (32°C)
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
König Hardness (3 mils)	ASTM D-4366	156
Tensile Strength	ASTM D-638	6,500 psi
Tensile Elongation	ASTM D-638	6%
Adhesion	ASTM D-4541	425 psi, concrete failure (applied over epoxy)
Impact Resistance	ASTM D-2794	>150 in/lb
Water Absorption	ASTM D-570 (24 hrs)	<0.5%
Flame Test (3 mils over cement board)	ASTM D-648	Class 1
Abrasion Resistance (CS-17 wheel, 1,000 g load, 1,000 cycles)	ASTM D-4060	15–20 mg loss (24 hrs); 10–15 mg loss (72 hrs)
Coefficient of Friction (James Friction Tester)	ASTM D-2047	Wet 0.7 · Dry 0.8 (smooth)

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.

Repairs

Repair gouges, scratches, or chip-outs as soon as possible to prevent moisture or chemical contamination.

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.