"High Performance Industrial Flooring"

103 PumaPOXY WB™

Waterborne, Two-Part Epoxy

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

103 PumaPOXY WB is an easy-to-apply, polyamide, waterborne epoxy primer. It is semi-permeable, has good moisture tolerance, and offers excellent adhesion to properly prepared new or old concrete and to previously epoxy-coated surfaces.

It is applied easily by roller, or by a combination of squeegee and roller, and may be thinned with up to 1 part water. Non-toxic and very low in odor, it seals the concrete and provides a durable finish.

ADVANTAGES

- Excellent adhesion to most substrates
- Primer, sealer, or base/grout coat
- Water-reducible for lower viscosity
- Semi-gloss finish
- Up to 20+ minutes working time; fast dry and recoat time
- **Moisture tolerant** — can be applied to green concrete in as little as 2–3 days as a concrete sealer
- **Semi-permeable** — allows concrete moisture vapor to pass through the coating without failure

TYPICAL USES

- Industrial production facilities that typically have rubber-wheeled cart and lift traffic
- When topcoated with PumaPOXY or PumaTHANE, provides a high-gloss, easy-to-clean, abrasion-resistant surface

LIMITATIONS

- Substrate must be structurally sound, cured, and free of bond-inhibiting contaminants.
- During installation and the initial cure cycle, substrate and ambient air temperature must be 50–90°F (10–32°C).
- Relative humidity above 75% will significantly reduce evaporation rates and overall cure. With higher humidity, proper air movement is recommended.

PERFORMANCE CHARACTERISTICS

Adhesion to Concrete	**Excellent**
Resistance to Moisture	**Excellent**
Thermal Shock	**Excellent**

PRODUCT CHARACTERISTICS

Color	Clear; may be tinted (light to medium shades) — add 4 oz PumaCOLOR WB per gal
Appearance	Semi-gloss
Mix Ratio	1 Resin : 3 Hardener
Reducer	Water (up to 1 part, or 20%)
Viscosity	20,000 cps
Volume Solids	48% ± 2%, mixed
Weight Solids	59% ± 2%, mixed
VOC (EPA 24)	Unreduced, mixed: <0 g/L; 0.0 lb/gal

SPREADING RATE PER COAT

	Min	Max
Wet mils (µm)	4.5 (100)	8 (200)
ft²/gal (m²/L)	350 (8.9)	200 (5.1)

DRYING SCHEDULE

@ 6 mils (150 µm) wet, 73°F (23°C)

To touch	2–4 hrs
To recoat	3–24 hrs
Pot life	45 min, 1 gal mass @ 73°F (23°C)

If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.

SHELF LIFE & STORAGE

Part A	12 months, unopened
Part B	12 months, unopened
Storage	Indoors at 50–90°F (10–32°C). Do not allow to freeze.

SURFACE PREPARATION

Proper inspection and preparation of the substrate to receive resinous material is critical. A clean, profiled substrate is required. Read and follow PumaCRETE's "Instructions for Concrete Surface Preparation" for details.

103 PumaPOXY WB performs best on an unpainted, porous surface. If the surface is painted with a well-adhered epoxy coating, clean and abrade the surface thoroughly, then apply the coat.

MIXING & APPLICATION

Strictly follow mix ratio recommendations.

1. Premix 103 resin and 103 hardener separately, using a low-speed drill and a separate Jiffy "spiral" paint mixer. Mix for one minute, until uniform, taking care not to whip air into the materials.
2. Add 3 parts 103 PumaPOXY WB hardener to 1 part 103 PumaPOXY WB resin. Mix with a low-speed drill and Jiffy blade for two minutes, until uniform.
3. Add up to 25% (1 part) water to thin the product and extend working time.
4. If tinting, add PumaCOLOR tint at 2–4 oz per mixed gallon.
5. Apply using the "dunk & roll" method. Pour material into a roller tray and apply with a 3/8" nap roller at 300–350 sq ft per gallon.

Allow to cure a minimum of 3–4 hours, depending on air movement, before applying the next coat.

INSTRUCTIONS FOR TINTING

Clear 103 PumaPOXY WB may be tinted with PumaCOLOR pigment (up to 4 oz per mixed gallon).

Note: Adding pigment will reduce working time. If pigment is added, it is recommended to thin the mix with 25% water.

ORDERING INFORMATION

Resin	1 gal (3.8 L) and 5 gal (18.9 L) containers
Hardener	1 gal (3.8 L) and 5 gal (18.9 L) containers
Weight	10.4 ± 0.2 lb/gal; 1.25 kg/L, mixed

CLEANUP

Clean up mixing and application equipment immediately after use with soap and water.

SAFETY

Refer to the SDS before use.

Published technical data and instructions are subject to change without notice. Contact your PumaCRETE representative for additional technical data and instructions.

MAINTENANCE

Occasional inspection of the installed material and spot repair can prolong system life. For specific information, contact the Technical Service Department.

DISCLAIMER

The information and recommendations set forth in this Technical Data Sheet are based upon tests conducted by or on behalf of PumaCRETE. Such information and recommendations are subject to change and pertain to the product offered at the time of publication. Consult your PumaCRETE representative to obtain the most recent Product Data Information and Application Bulletin.

WARRANTY

PumaCRETE Corp. warrants its products to be free of manufacturing defects in accord with applicable PumaCRETE quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or refund of the purchase price paid, as determined by PumaCRETE. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY PumaCRETE, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.