

# WATERBASE EPOXY

2-COMPONENT, 4 TO 1 MIX RATIO

## PRODUCT DESCRIPTION

A premium quality 2-component water base epoxy concrete sealer/primer that provides epoxy toughness, chemical resistance and durability with the convenience of a water base VOC free system.

## ADVANTAGES

- Easy water clean-up
- Long pot life
- Excellent coverage-hide
- Fast drying (30min to 2hours)
- Unsurpassed Adhesion
- VOC Free

## PHYSICAL PROPERTIES

| PROPERTY             | VALUE              | REFERENCE                                |
|----------------------|--------------------|--|
| Compressive Strength | 7,800 psi          | ASTM C 695                               |
| Flexural Strength    | 3,700 psi          | ASTM D 790                               |
| Tensile Strength     | 3,900 psi          | ASTM D 638                               |
| Bond to Concrete     | 350 psi            | ASTM D 4541 Concrete fails at this point |
| Taber Abrasion       | 75-80 Mgs          | ASTM D 4060                              |
| Flammability         | Self-extinguishing |  |
| Hardness, Shore D    | 84                 | ASTM D 2240                              |
| Flash Point          | >94°C              |  |

## INSPECTION

Surface must be structurally sound, dry, and free of oil, grease, curing agents, dirt, dust or other foreign matter. Surface must be roughed up or porous. This product is designed for use over untreated concrete surfaces free from wax, dusting preventive sealers, deep penetrating sealers, bond breaking compounds and release agents and other similar chemicals that will interfere with proper adhesion and lead to premature coating failures.

## SURFACE PREPRATION

Prepare surface by sanding, grinding, dry or wet sandblasting or shot blasting to achieve a clean, porous and uniform exposed aggregate finish with a CSP (Concrete Surface Profile) rating of "2" that will allow the product to penetrate the surface. Bead or shot blasting is the most reliable method of preparation. Clean surface entirely with TSP and rinse completely with water several times.

### Product Data

Volumetric Ratio.....4 to 1

Solids.....50% (+ or - 1%)

Coverage 19m<sup>2</sup>/gal. undiluted

28-38m<sup>2</sup>/gal. mixed with 64 oz

(1.90ltrs). water to every

pre-blended gallon of epoxy

Pot life: .....3 hours

Working time on floor: ..... 30-45 minutes

Cure time: .....30 mins to 2hours

### TOP COAT OR BROADCAST:

Apply at 19m<sup>2</sup>/gal undiluted

**Primer coat** cut up to 50% with water and

apply at 28-38m<sup>2</sup>/gal

**Colour Pigments** Permacolour Epoxy is available with standard premixed colours or in clear base with pourable pigment colour kits. Stock Pigments Include:

- Clear
- Light Grey
- Medium Grey
- Dark Grey
- White
- Black
- Tan
- Beige
- Tile Red
- Safety Red
- Safety Blue
- Safety Green
- Safety Yellow

### Finish:

Gloss

### Packaging

#### 1.25 Gallon kit:

Part A..... 1gal (3.785ltrs)

Part B..... Quart. (0.95 ltrs)

#### 5 Gallon kit:

Part A......4gal (15.14ltrs)

Part B......1gal (3.785ltrs)

## MILDEW

**DO NOT PAINT OVER MILDEW.** Mildew is a fungus, brown, black, grey or even white in colour, and will rapidly grow through any coating applied over it. A solution of 50% household bleach and 50% water will kill the mildew. See precautions on bleach label for handling before using.

## MIXING

**MIX 4 PARTS "A" WITH 1 PART "B" IN BATCHES NO LARGER THAN 1.25 GALLON AT A TIME EXCEPT AS NOTED ABOVE UNDER "SELF PRIMING REQUIREMENTS".**

Top Coat: In a clean and dry bucket, mix 4 parts A and 1 part B together using an agitator, jiffy mixer or stir stick. Mix slowly for at least 2 minutes or until completely combined. Prepare only the amount you can use in 2 hours in quantities of no more than 1 gallon at a time. Do not leave the mixed epoxy in the bucket longer than 4 hours.

## APPLICATION INSTRUCTIONS

Immediately prior to application, damper surface with a water sprayer. **Do not puddle or leave standing water**, spray only enough to darken concrete surface. After begin applying the properly mixed epoxy always making sure to keep a damp edge ahead of the application until the floor is complete.. For best results on horizontal surfaces, pour the entire mixture evenly onto the surface as soon as possible after mixing. Use a 10mm nap roller or squeegee to spread mixture over the surface, back rolling the area to be coated. For best results apply at least 2 coats at 24 m<sup>2</sup> per gallon. Clean tools with soap and water before curing begins. To increase skid resistance, stir in an approved non-skid additive into your A & B mixture.

## CONCRETE SURFACE PREPRATION

Concrete surfaces should be clean, dry, and free of disintegrating chalky material or previously applied coatings to insure satisfactory results. For proper adhesion surface must be mechanically ground or shot blasted to a uniform exposed aggregate finish with a CSP (Concrete Surface Profile) rating of 2. The surface profile should resemble 80 grit sandpaper to be suitable for coating.

## WARNING! SLIP AND FALL PRECAUTIONS

OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slip resistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. Permacolour Flooring recommends the use of angular slip resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. Permacolour or its sales agents will not be responsible for injury incurred in a slip and fall accident.

**CAUTION! COMBUSTIBLE! KEEP OUT OF REACH OF CHILDREN**

## COVERAGE

76 microns dry film at 24m<sup>2</sup> per gallon. 152 microns dry film at 12m<sup>2</sup> per gallon.

## THINING

When using this product as a Primer, thin slightly with water if necessary. To thin add up to maximum ½ gallon of water to a pre-blended 1 gallon of Part A and Part B mixture and blend slowly and thoroughly.

## DRYING TIME/CURE TIMES

Under normal Conditions (21°C & 50% Humidity) dries to touch in 30 minutes to 2 hours depending on formulation. May be recoated when dry to the touch. Do not apply to surfaces when ambient or surface temperatures are below 10°C.

Higher temperatures and lower humidity will accelerate cure times and reduce working time.

## APPLICATION IN EXTREMELY HOT WEATHER

1. Dampen the floor surface to be coated. (Do not saturate)
2. In a large bucket, mix and prepare no more than a 1 gallon kit at time.
3. Pour entire mixture evenly onto the horizontal surface to be coated.

## CLEAN UP

Soap and water. (Before curing begins)

## Handling Precautions

Use only with adequate ventilation. Appropriate cartridge-type respirator must be used during application in confined areas. Avoid contact with skin. Some individuals may be allergic to epoxy resin. Protective gloves and clothing are recommended.

## WARRANTY

Permacolour products are warranted for one year after date of purchase. Please refer to the Limited Material warranty for additional clarification.