

# 4800 Low Yellowing Industrial Epoxy

## Installation Guide

### PRODUCT DESCRIPTION

4800 Low Yellowing ( LY ) Industrial Floor Epoxy is a 100% solids clear build coat/topcoat epoxy that exhibits great chemical, and wear resistance. 4800 is primarily used as a concrete floor topcoat or a system topcoat in decorative, commercial, and industrial applications requiring low odor installation and specific chemical resistance. 4800 can also be used as a build coat in conjunction with a Chemical Resistant & UV Resistant Urethane or Polyaspartic Topcoat. 4800 Low Yellowing ( LY ) resists UV Yellowing longer than the standard formula.

### RECOMMENDED COVERAGE RATES

| Over Surfaces | First Coat | Second Coat   |
|---------------|------------|---------------|
| 1/4" Flakes   | 200 SF/gal | 250 SF/gal LY |
| 1/8" Flakes   | 150 SF/gal | 200 SF/gal    |
| 1/16" Flakes  | 125 SF/gal | 250 SF/gal    |
| <b>Smooth</b> | 200 SF/gal | 250 SF/gal    |

### SUBSTRATE REQUIREMENTS

#### **Flake Floors**

All flaked floors shall be clean, dry, and the flake should be fully adhered to the primer coat. Flake shall be free of dust, dirt, grease, contamination, surface laitance, and other potential bond-breaking substances that could impair adhesion. Substrate and ambient temperatures must be above 35oF during installation of coating. Relative humidity should not exceed 65% during installation of the coating. Environmental conditions must not be near the dew point during installation of the coating. Moisture Vapor Transmission of the substrate must not exceed 3lbs per 1000 SF per 24 hours. For high MVT substrates, consult with a VBP representative for recommendations.

#### **Concrete Priming**

Concrete shall be structurally sound and stable. Concrete shall be free of dust, dirt, grease, contamination, surface laitance, and other potential bond-breaking substances that could impair adhesion. Concrete may need to be mechanically profiled and prepared by shot-blasting, grinding, or other means of scarification. All cracks, gouges, and other surface defects need to be addressed prior to coating installation. Substrate and ambient temperatures must be above 50°F (10°C) during installation of LTP. Relative humidity should not exceed 65% during installation of the coatings. Environmental conditions must not be near the dew point during installation of the coatings. Moisture vapor emission must be < 8lbs/24hr/1000 ft2.

**\*\*All concrete shall be primed with 4100 Epoxy Primer before applying 4800. Refer to 4100 install guide for instructions.\*\***

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***If moisture vapor emission is higher, contact a Versatile Building Products representative for an alternative coating system.***

### ADVICE BEFORE INSTALLATION

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All products in this system are two component products. Be sure to mix thoroughly before the application. Cure times will be affected by environmental conditions so do not force dry.

High Humidity and or Low Temperatures can cause haziness and blushing in the coatings.

Pot life is approx. 40 min for a 1.5 Gal kit.

Large masses of mixed or heated material will have shorter pot life so if you are not familiar with the product do not mix more than one a 1.5 Gal kit at a time.

The more you mix the shorter the pot life and working time will be.

#### ***Hot Weather Tips***

These Products have a shorter pot life in very hot conditions. Keep the material core temperature around 50-75°F if possible. *Icing the buckets hours before doing job or placing in a cool environment the day before application can help lower the core temperature.* If instructions are not followed, excessive heat may cause outgassing. *To reduce the effects of outgassing (vapor coming out of the substrate), install when the temperature is dropping from the highest temperature of the day.*

#### ***Cold Weather Tips***

All Epoxies are temperature sensitive. The colder the temperature the longer the dry and cure times will be.

Keep the material core temperature around 50 to 75° if possible. *Using a pale warmer before doing the job or placing product in a warm environment the day before application can help increase the core temperature which will make the material thinner and easier to work with.*

### INSTALLATION STEPS

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#### ***1. Surface Preparation***

There are many methods of surface preparation for various substrates many of which are adequate for this application consult a Versatile representative for alternatives to the procedure outlined below and methods of correcting problematic and contaminated substrates.

##### ***Concrete-***

If the Concrete allows water to penetrate, then proceed to clean the surface with the V-100 Degreaser Cleaner using liberal amounts on oil stains and scrub until the water no longer beads up on it.

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If the Concrete is not porous, does not darken when wet, it must be mechanically profiled and prepared by shotblasting, grinding, water jetting or other means of scarification to a concrete surface profile ( CSP ) between two and four according to international concrete repair institute ICRI guideline number 03732

**\*\*All concrete shall be primed with 4100 Epoxy Primer before applying 4800. Refer to 4100 install guide for instructions.\*\***

### 2. Preparation

- Shut off all sources of ignition prior to work, and throughout the Installation process.
- Supply auxiliary ventilation as necessary to produce a safe working environment.
- Use a NIOSH approved respirator capable of filtering organic vapors

### 3. Mixing

- Materials should be kept room temperature 50 to 75°F.
- Mix 4800 LY Epoxy A component with 4800 LY Epoxy B Component at ratios listed on the label, 2 A : 1 B for 2 to 3 minutes using a jiffy type Mixing Blade at no less than 700 rpm.
- Transfer mixed material to a second Mixing Versatile and mix an additional minute to ensure that material along the sides of the first mixing vessel are properly incorporated into the mixture, be sure to mix thoroughly

### 4. Application

#### Over Flake

- After mixing, pour a nice even consistent 4-5" wide ribbon across the floor surface.
- Use Magic Trowel squeegee to spread 4800 LY out evenly so the entire surface is coated evenly.
- Pour out additional ribbons on the surface as needed and make sure to keep a "Wet Edge" at all times.
- Walk back into the wet floor on spiked shoes to disperse any heave puddles of materials that are pooling.
- Keep a firm pressure on the trowel when spreading.
- Once 4800 LY is spread out evenly with the Magic Trowel squeegee, use an 18" Lint Free Roller to back roll the entire surface, keeping spread rate at 125-200 SF/gal. This will even out the gloss across the entire floor and should be done in the opposite direction you squeegee.

#### Over Solid-Color or Metallic Floor

- After mixing, pour a nice even consistent 4-5" wide ribbon across the floor surface.

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- Use 1/16" squeegee to spread 4800 LY out evenly so the entire surface is coated evenly.
  - Pour out additional ribbons on the surface as needed and make sure to keep a "Wet Edge" at all times.
  - Walk back into the wet floor on spiked shoes to disperse any heave puddles of materials that are pooling.
  - Keep a firm pressure on the trowel when spreading.
  - Once 4800 LY is spread out evenly with the 1/16" squeegee, use an 18" Lint Free Roller (de-lint it before use for best results) to back roll the entire surface, keeping spread rate at 200-250 SF/gal. Do not over work the material and keep the back rolling to a minimum, the material has great leveling properties. Use the single back roll method to even out overlaps where there is too much materials, and the lines are visible.

#### 4. Clean-up

- Immediately cleanup splatter marks and tools with MEK or Acetone.
- Clean hands and exposed skin with mild soap and water, and/or citrus based hand-cleaner.

#### 5. Cure Times

- 4800 LY can typically accept light foot traffic in 9-12 hours.
- Recoat after 12-24Hrs. of applying and or while the surface is still slightly Tacky.
- Vehicular traffic with pneumatic tires in 72 hours.
- Full cure occurs in 7 days.
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### ADDITIONAL CAUTIONS AND RECOMENDATIONS

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- Pilot lights and surrounding sources of ignition may be put back into service once solvent vapors have dissipated to a level below the lower explosion limit. Typically, this will take 6-10 hours after floor installation with adequate ventilation.
  - Keep mixed material in pail to achieve maximum working time instead of pouring bands on the floor.
  - Do not apply at less than 150 SF per gal or excessive moisture entrapment may occur in wet film which may cause hazing.
  - Do not force dry.
  - Mask all areas that need protection.
  - Always wear protective clothing and equipment as required by OSHA and as necessary.
  - Have all personnel who come in contact with liquids read The Versatile EPOXY, URETHANE, AND POLYASPARTIC 2K SAFETY GUIDE and Material Safety Data Sheets before commencing work
  - Store material at 50-75oF.
  - 4800s are combustible, DO NOT USE torch or flame after applying these products.



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- Coating may still amber under exposure to UV Light.

### TECHNICAL SERVICES

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- Technical services can be obtained by contacting Versatile directly at 714-829-2600.