

# KL4500 Series

## Kolor-Poxy Self Priming Surfacing Enamel

### DESCRIPTION

Two-Component, Epoxy-Polyamine High Build Primer/Topcoat

### PRINCIPAL CHARACTERISTICS

- For use as a high build primer/topcoat for properly prepared concrete and steel surfaces subject to radiation, decontamination and loss of coolant accidents in Coatings Service Level 1 areas of Nuclear Power Plants.
- Suited for piping, equipment and structural steel, concrete floors and walls.
- Use for immersion service in some industrial environments

#### Notes:

- Not Recommended for areas other than Level 1 areas. KL3500 series can be utilized in Coating Service Level II as well as balance of plant of Nuclear Power Plants.
- Not recommended for immersion in strong acids.

### COLOR AND GLOSS LEVEL

- White, light tints, and selected dark colors
- 60 degree Gloss will range for 10-90%.

Note: Specific gloss depends on application and dry film thickness.

### BASIC DATA AT 77°F (25°C)

| Data for mixed product         |                                                                                                                                                                                                                                             |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of components           | Two                                                                                                                                                                                                                                         |
| Volume solids                  | 93 ± 3%                                                                                                                                                                                                                                     |
| VOC (Supplied)                 | max. 0.6 lb/US gal (approx. 69 g/l)                                                                                                                                                                                                         |
| Temperature resistance         | To 350°F 177°C)                                                                                                                                                                                                                             |
| Recommended dry film thickness | 8.0 - 50.0 mils (200 - 1250 µm) per coat                                                                                                                                                                                                    |
| Theoretical spreading rate     | 1490 ft <sup>2</sup> /US gal for 1.0 mils (36.6 m <sup>2</sup> /l for 25 µm)<br>187 ft <sup>2</sup> /US gal for 8.0 mils (4.6 m <sup>2</sup> /l for 200 µm)<br>30 ft <sup>2</sup> /US gal for 50.0 mils (0.7 m <sup>2</sup> /l for 1250 µm) |
| Dry to touch                   | 4 hours                                                                                                                                                                                                                                     |
| Dry to overcoat                | Minimum 24 hours                                                                                                                                                                                                                            |
| Dry to handle                  | 8 hours                                                                                                                                                                                                                                     |
| Shelf life                     | At least 12 months when stored cool and dry                                                                                                                                                                                                 |

#### Notes:

- Drying times listed may vary depending on temperature, humidity and air movement
- In-service heat limitation value is maximum, Dry heat.



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### RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Steel or Concrete.
- Concrete or Masonry: Allow to cure for thirty (30) days under normal drying conditions. Remove all contamination. Concrete treated with curing compounds or hardeners should be thoroughly abraded.
- The service life of the coating is directly related to the surface preparation.
- The surface to be coated must be properly prepared, dry, clean and free of contamination.
- Steel Non-Immersion: SSPC-SP6 (NACE#3) Commercial Blast Cleaning Minimum.

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#### **Substrate temperature**

- DONOTUSE Above 120°F (49°C) and below 50°F (10°C), and at least 5°F (3°C) above dew point during application and curing

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#### **Warning**

Removal of old paint by sanding, scraping or other means may generate dust or fumes which contain lead. EXPOSURE TO LEAD DUST OR FUMES MAY CAUSE ADVERSE HEALTH EFFECTS, ESPECIALLY IN CHILDREN OR PREGNANT WOMEN. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted and approved (e.g., NIOSH approved) respirator and proper containment and cleanup. For additional information, contact the USEPA/Lead Information Hotline at 1-800-424-LEAD or the regional Health Canada office

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### SYSTEM SPECIFICATION

- Recommended Basecoats: Epoxy Clear Curing Compound.

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- Mix the two components, Part A & B in the proportions furnished by stirring independently and then together. DO NOT SUBDIVIDE KITS
  - Thoroughly mix Part A and Part B components by "boxing" between two containers at least ten times, or as necessary to insure uniformity.
  - Thin the mixture (if required by application) and "box" if necessary to obtain a uniform mixture.

Note: Power mixing is acceptable but it should be noted that such equipment induces heat which could shorten the pot life of the coatings significantly

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#### **Pot life**

2 hours at 77°F (25°C)

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### **Application**

- Apply by air or airless spray, brush or roller application
- Apply only when air, product and surface temperatures are at least 50 F(10 C) and surface temperature is at least 5 F (3 C) above the dew point

### **Material temperature**

Material temperature during application should be between 50°F (10°C) and 85°F (29°C)

Note: It is recommended that KL4500 not be catalyzed or mixed when the temperature of the coating material exceeds 85 degrees F since the pot life will be reduced to an inconveniently short duration.

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### **Air spray**

- DeVilbiss MBC gun, 704 or 777 air cap with "E" tip and needle or equivalent equipment. Atomization Pressure: 30-60 psi
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### **Airless spray**

- Equipment capable of maintaining a minimum of 4000 psi at the tip without surge. 0.015"(0.381mm) to 0.031"(0.787mm) orifice.
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### **Brush/roller**

- Use a high quality natural bristle brush or a 3/8" nap polyester-nylon roller cover with a solvent resistant core.

### **Recommended thinner**

KL4093 Thinner

### **Volume of thinner**

0 – 43%

Note: Do not overthin for specific application. Overthinning will result in reduced film build properties.

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### **Cleaning solvent**

Thinner KL4093



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### ADDITIONAL DATA

| Overcoating interval for DFT up to 50 mils |          |                 |             |             |             |
|--------------------------------------------|----------|-----------------|-------------|-------------|-------------|
| Overcoating with...                        | Interval | 32°F (0°C)      | 50°F (10°C) | 70°F (21°C) | 90°F (32°C) |
| itself                                     | Minimum  | Not recommended | 48 hours    | 24 hours    | 12 hours    |
|                                            | Maximum  | Not recommended | None        | None        | None        |

Note: When the temperature of the coating material exceeds 85 degrees F, the pot life will be reduced to an inconveniently short duration.

| Pot life (at application viscosity) |                   |
|-------------------------------------|-------------------|
| Mixed product temperature           | Pot life          |
| 60°F (16°C)                         | 2 hours - 3 hours |
| 85°F (29°C)                         | 1 hour            |
| 95°F (35°C)                         | Not recommended   |

### Product Qualifications

- Qualified per ANSI N101.2 and ASTM D3911 for Coating Service Level 1 for Nuclear Power Plants.

### SAFETY PRECAUTIONS

- See Safety Data Sheet and product label for complete safety and precaution requirements
- Spray equipment must be handled with due care and in accordance with manufacturer's recommendation
- High-pressure injection of coatings into the skin by airless equipment may cause serious injury, requiring immediate medical attention at a hospital
- Not intended for residential use.

### WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

### AVAILABILITY

#### Packaging

2 gallon and 5 gallon kits.



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| Product codes | Description                       |
|---------------|-----------------------------------|
| KL4500/02     | White base for 2 gallon kit       |
| KL4500/05     | White base for 5 gallon kit       |
| KL45006792/02 | Sky Gray Base for 2 gallon kit.   |
| KL45000445/02 | Deep Yellow Base for 2 gallon kit |
| KL45000177/02 | Black base for 2 gallon kit       |
| KL45007975/02 | Dawn Gray Base for 2 gallon Kit   |
| KL45005360/02 | Light Gray Base for 2 gallon Kit  |
| KL4500B/01    | Hardener for 5 gallon kit         |
| KL4500B/04    | Hardener for 2 Gallon Kit         |
| KL4500BN/04   | Neutral Hardener for 2 Gallon Kit |

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