

KLD Series

Epoxy Hi-Build Enamel

DESCRIPTION

Two-component, high solids, polyamide epoxy enamel

PRINCIPAL CHARACTERISTICS

- Formulated to develop a high build, single coat application.
- Provides excellent chemical, abrasion and direct impact resistance for interior exposures.
- Use as a topcoat for concrete and steel surfaces subject to radiation, decontamination, and loss of coolant accidents in Coating Service Level I areas of Nuclear Power Plants.

Notes:

- Not recommended for exterior exposures; areas subject to splash and spillage of strong acids; immersion in strong acids.
- Not recommended for areas other than Service Level 1. KLL series can be utilized in Coating service Level II and certain Level III areas as well as balance of plant of Nuclear Power Plants with a substantial cost savings.

COLOR AND GLOSS LEVEL

- White and Light Tints
- Gloss 60 Meter: 80 minimum

BASIC DATA AT 77°F (25°C)

Data for mixed product	
Number of components	Two
Volume solids	68 ± 3%
VOC (Supplied)	max. 2.4 lb/US gal (approx. 288 g/l)
Temperature resistance	To 250°F 121°C)
Recommended dry film thickness	3.0 - 5.0 mils (75 - 125 µm) per coat
Theoretical spreading rate	362 ft ² /US gal for 3.0 mils (8.9 m ² /l for 75 µm)
Dry to touch	6 hours
Dry to overcoat/topcoat	24 hours
Dry to handle	12 hours
Shelf life	At least 24 months when stored cool and dry

Notes:

- Drying times listed may vary depending on temperature, humidity and air movement
- In-Service heat limitations is Maximum for Dry Heat

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RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Metal and Masonry
- The service life of the coating is directly related to the surface preparation.
- The surface to be coated must be dimensionally stable, properly prepared and primed, dry, clean and free of all contamination including oil, dirt, grease and rust.

Substrate temperature

- DONOTUSE Above 120°F (49°C) and below 55°F (13°C), and at least 5°F (3°C) above dew point during application and curing

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., NIOSHapproved) 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

SYSTEM SPECIFICATION

- Compatible Basecoats: KL6548S Epoxy Surfacer and KL65487107 Epoxy White Primer.

INSTRUCTIONS FOR USE

- 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.
- Power mixing is acceptable but it should be noted that such equipment induces heat which in turn could shorten the pot life significantly.

Mixed product induction time	
Mixed product temperature	Induction time
77°F (25°C)	45 minutes
85°F (29°C)	30 minutes
100°F (38°C)	15 minutes

Pot life

4 hours at 77°F (25°C)

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Application

- Apply by spray, brush or roller application

Note: Application equipment used to apply all epoxy coating materials should be THOROUGHLY cleaned every eight hour shift of each working shift.

Material temperature

Material temperature during application should be between 55°F (13°C) and 100°F (38°C)

Air spray

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

Airless spray

- Equipment capable of maintaining a minimum of 2500 psi at the tip without surge. 0.011" (0.279mm) to 0.017" (0.430mm) orifice.

Brush/roller

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

Recommended thinner

KL4093 Thinner

Volume of thinner

0 – 5%

ADDITIONAL DATA

Overcoating interval for DFT up to 5.0 mils (125 µm)					
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	36 hours	10 hours
	Maximum	Not recommended	Extended	Extended	Extended

Note: KLD coating systems must be cured a minimum of 7 Days at 72 F or more before being subjected to continuous immersion.

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Pot life (at application viscosity)	
Mixed product temperature	Pot life
72°F (22°C)	4 hours
85°F (29°C)	2 hours
100°F (38°C)	1 hour

Product Qualifications

- Qualified per ANSI N101.2 and ASTM D3911 for Coating Service Level 1 for Nuclear Power Plants.
- This coating material is manufactured in accordance with a written QUALITY ASSURANCE PROGRAM which meets the requirements of Appendix B 10CFR50 and 10CFR21 of the Federal Register, ANSI N101.4 and ASTM D3843

SAFETY PRECAUTIONS

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

WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.

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

1-quart, 1-gallon and 5-gallon kits



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Product codes	Description
KLD14670/05	Mint Green Base for 5 gallon Kit
KLD16492/01	Gray Base for 1 gallon kit
KLD16492/05	Gray base for 5 gallon kit
KLD17155/01	Powder Blue Base for 1 gallon kit
KLD17155/04	Powder Blue Base for 1 Quart Kit
KLD17475/01	White Base for 1 gallon kit
KLD17844/01	Salem Gray Base for 1 gallon kit
KLD17938/01	Ivory Cream base for 1 gallon kit
KLD18591/01	Off White Base for 1 gallon kit
KLD18591/04	Off White Base for 1 quart kit
KLD19140/01	White base for 1 gallon kit.
KLD19140/04	White base for 1 quart kit
KLD1AA57/05	Gray Base (FS 6280) for 5 gallon kit
KLD1B/02	Clear Hardener for 5 gallon kit
KLD1B/04	Hardener for 1 gallon kit
KLD1B/12	Clear Hardener for 1 quart kit

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