

KLE Series

Epoxy Enamel

DESCRIPTION

Two-Component, Polyamide-Epoxy Enamel

PRINCIPAL CHARACTERISTICS

- 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.
- Formulated to provide excellent chemical, abrasion and direct impact resistance for interior exposures
- Use as a topcoat for interior steel, concrete and masonry surfaces, especially in alkaline environments

Notes:

- Coating system must be cured a minimum of 7 days before being subjected to continuous immersion.
- Not recommended for exterior exposures; areas subject to splash and spillage of strong acids; immersion in strong acids.

COLOR AND GLOSS LEVEL

- A wide range of colors are available
- Gloss 60 Meter: 85 minimum

BASIC DATA AT 77°F (25°C)

Data for mixed product	
Number of components	Two
Volume solids	54 ± 3%
VOC (Supplied)	max. 3.5 lb/US gal (approx. 416 g/l)
Temperature resistance	To 250°F 121°C)
Recommended dry film thickness	2.0 - 2.5 mils (50 - 64 µm) per coat
Theoretical spreading rate	362 ft ² /US gal for 2.0 mils (8.9 m ² /l for 50 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 limitations: 250 degrees F (Maximum Dry heat)

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- For application to Metal or Masonry



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Substrate temperature

- DONOTUSE Below 50°F (10°C), and at least 5°F (3°C) above dew point

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

- Recommended Basecoats: KL6548S Epoxy Surfacer, or KL65487107 Epoxy White Primer

Induction time

1 hour at 25°C (77°F)

Mixed product induction time	
Mixed product temperature	Induction time
Below 72°F (22°C)	1 hour
85°F (29°C)	45 minutes
100°F (38°C)	30 minutes

Application

- Apply by spray, brush or roller application
- 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.
- Mix the two components, Part A (Paint) and Part B (converter), in the proportions furnished by volume by stirring independently and then together. DO NOT SUB-DIVIDE KITS.
- Thoroughly mix the two components by "boxing" between two containers at least ten times, or as necessary to obtain a uniform mixture
- Allow to digest for 1 hour before use.

Material temperature

Material temperature during application should be between 55°F (13°C) and 120°F (49°C)

Notes:

- Curing is retarded below 60 degrees F
- If during shipment or for some other reason these materials are stored outside the specified storage range temporarily, the material must be brought into the specified storage temperature range for at least 24 hours prior to application. Materials must be kept from freezing.

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- Air spray**
- DeVilbiss MBC gun, 704 or 777 air cap with "E" or "F" tip and needle or equivalent equipment. Atomization Pressure: 30-60 psi
- Recommended thinner**
KL4093 or KL4093B
- Volume of thinner**
0 - 15%

- Airless spray**
- Equipment capable of maintaining a minimum of 2500 psi at the tip without surge.
- Recommended thinner**
KL4093 or KL4093B
- Volume of thinner**
0 - 15%
- Nozzle orifice**
0.011"(0.279 mm) to 0.017" (0.432mm)

- 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 or KL4093B
- Volume of thinner**
0 - 15%

Note: Application equipment used to apply all epoxy coating materials should be THOUROUGHLY cleaned at least every eight hours or after each working shift.

ADDITIONAL DATA

Overcoating interval for DFT up to 2.5 mils (64 μm)					
Overcoating with...	Interval	32°F (0°C)	50°F (10°C)	70°F (21°C)	90°F (32°C)
itself	Minimum	Not recommended	Not recommended	24 hours - 48 hours	24 hours
	Maximum	Not recommended	Not recommended	None	None

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Pot life (at application viscosity)	
Mixed product temperature	Pot life
72°F (22°C)	8 hours
85°F (29°C)	4 hours - 6 hours
100°F (38°C)	1 hour - 2 hours

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

- Read all label and Safety Data Sheet (SDS) information prior to use.
- Not intended for residential use.
- 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
- Although this is a solvent-free paint, care should be taken to avoid inhalation of spray mist, as well as contact between the wet paint and exposed skin or eyes

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
KLE10177/01	Black base for 1 gallon kit
KLE10177/04	Black base for 1 quart kit
KLE10066/01	Medium green base for 1 gallon kit.
KLE10445/01	Deep Yellow Base for 1 gallon kit.
KLE10445/04	Deep Yellow Base for 1 quart kit
KLE11860/01	Pearl Gray Base for 1 gallon kit
KLE11860/04	Pearl Gray base for 1 Quart kit
KLE11105/01	Dark Red Base for 1 gallon kit.
KLE13655/05	Yellow (FS3655) base for 5 gallon kit
KLE16792/01	Sky Gray Base for 1 gallon Kit.
KLE16792/04	Sky Gray Base for 1 quart kit
KLE17475/01	White Base for 1 gallon kit
KLE17975/01	Dawn Gray Base for 1 gallon kit
KLE17475/05	White base for 5 gallon kit
KLE18165/01	Airway Orange Base for 1 gallon kit
KLE19885/01	Salem Blue base for 1 gallon kit
KLE1BA80/01	Munsell base for 1 gallon kit
KLE2C844/01	Watchman Blue (SG) base for 1 gallon kit
KLE17099/04	Alaskan blue base for 1 quart kit
KLE1B/01	Hardener for 5 gallon kit
KLE1B/04	Hardener for 1 gallon kit
KLE1B/16	Clear Hardener for 1 quart kit

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