

# KL5129

## Epoxy Primer/Sealer

### DESCRIPTION

Two-component epoxy-amidoamine primer/sealer

### PRINCIPAL CHARACTERISTICS

- Use as a primer/sealer for rough, etched or blasted concrete surfaces subject to radiation, decontamination, and Loss-Of-Coolant accidents in Coating Service Level I Areas of Nuclear Power Plants
- High solids, VOC compliant
- Qualified for use as a sealer on concrete surfaces in Nuclear Coating Service Level I Areas

### COLOR AND GLOSS LEVEL

- Clear amber
- Gloss

Note: On concrete surfaces product will absorb into the porosity of the concrete leaving a darkened dull finish. If concrete varies in porosity the surface may range from dull to glossy

### BASIC DATA AT 25°C (77°F)

Data for mixed product	
Number of components	Two
Volume solids	95 ± 3%
VOC (Supplied)	max. 0.4 lb/US gal (approx. 52 g/l) max. 1.2 lb/US gal (approx. 143 g/l)
Recommended dry film thickness	2.0 - 4.0 mils (50 - 100 µm) per coat
Theoretical spreading rate	762 ft <sup>2</sup> /US gal for 2.0 mils (18.7 m <sup>2</sup> /l for 50 µm) 381 ft <sup>2</sup> /US gal for 4.0 mils (9.4 m <sup>2</sup> /l for 100 µm)
Dry to touch	12 hours at 25 °C (77°F)
Dry to topcoat	12 hours
Shelf life	At least 12 months when stored cool and dry

#### Notes:

- VOC reported as Air Dried @ 0.4 lbs./gal and 1.2 lbs./gal as EPA 24 test method
- The dry film thickness and spreading rate are depending on the absorption capability coming from the roughness and porosity of the concrete
- Dry to topcoat at 12 hours as long as product is not wet. A sticky surface is acceptable as long as spiked shoes are worn to walk on surface

### RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Slabs on grade should have a maximum moisture content of 3 lbs / 1,000 ft<sup>2</sup>/24 hours when measured by calcium chloride test

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### **Atmospheric exposure conditions**

- Ambient temperature during application and curing should be between 50 °F (10 °C) and 100 °F (38 °C)
- Relative humidity should not exceed 90%

### **Substrate temperature**

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

#### Notes:

- Storage conditions should be between 50°F (10°C) and 85°F (29°C)
- If during shipment, or for some other reason, this material is stored outside the specified storage range temporarily, the material must be brought into the specified range at least 24 hours prior to application

### **SYSTEM SPECIFICATION**

- Topcoat: KL5000

### **INSTRUCTIONS FOR USE**

- The surface to be coated must be properly prepared, dry, clean and free of contamination
- Track blast or acid etch and rinse well to neutralize
- Use a rotary wire brush, grinder or brush blast for walls
- A surface profile equivalent to 80 grit sandpaper is required
- Mix thoroughly before application

### **Induction time**

None

### **Pot life**

45 minutes at 77°F (25°C)

### **Application**

### **Material temperature**

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

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### **Airless spray**

- Hoses should normally be kept as short as possible
- Equipment should be capable of maintaining a minimum of 1500 psi at the tip without surge

### **Recommended thinner**

No thinner should be added

### **Nozzle orifice**

Approx. .009" (0.23 mm) to 0.015 (0.38 mm)

### **Brush/roller**

- A roller suitable for epoxy application must be used
- Use a high quality natural bristle brush and/or solvent resistant, 3/8" nap roller. Ensure brush/roller is well loaded to avoid air entrainment. Multiple coats may be necessary to achieve adequate film-build

### **Recommended thinner**

No thinner should be added

### **Cleaning solvent**

THINNER 21-06 (PPG HI-TEMP THINNER 11/AMERCOAT 65)

## **SAFETY PRECAUTIONS**

- 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
- **WARNING!** If you scrape, sand, or remove old paint, you may release lead dust or fumes. LEAD IS TOXIC. EXPOSURE TO LEAD DUST OR FUMES CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a properly fitted NIOSH-approved respirator and prevent skin contact to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out to protect yourself and your family by contacting the USEPA National Lead Information Hotline at 1-800-424-LEAD or log on to [www.epa.gov/lead](http://www.epa.gov/lead). In Canada, contact a regional Health Canada office. Follow these instructions to control exposure to other hazardous substances that may be released during surface preparation.

## **WARRANTY**

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### AVAILABILITY

#### Packaging

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

Product codes	Description
KL6129/04	Clear base for 1 quart kit
KL6129/01	Clear Base for 1 gallon kit
KL6129/05	Clear base for 5 gallon kit
KL6129B/08	Clear Hardener for 1 quart kit
KL6129B/12	Clear Hardener for 1 gallon kit
KL6129B/02	Clear Hardener for 5 gallon kit

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