

TECHNICAL DATA

DESCRIPTION

PK-1 CR epoxy novolac is a 2 part 100% solids, liquid applied coating. This system combines one molecule, the thermal stability of a phenolic resin back bone with the reactivity and versatility of an epoxy resin.

This multi-functionality produces a more tightly cross linked system resulting in better elevated temperature performance and superior chemical resistance in comparison to conventional bisphenol, epoxy resin or polyester systems.

VOC Content: Trace VOC (less than 5 g/l).

TYPICAL APPLICATIONS

- ✓ Chemical Process Plants
- ✓ Metal Finishing Plants
- ✓ Pulp Mills
- ✓ Food Processing Plants
- ✓ Sewage and Waste Treatment Plants
- ✓ Trenches and Sumps Hangar Floors
- ✓ Manufacturing Floors & Walls
- ✓ Exterior Floors & Walls
- ✓ UV-Stable
- ✓ Showrooms
- ✓ Commercial Properties

FEATURES

Superior Chemical Resistance to a Wide Range of Chemicals

Elevated Temperature Performance

Outstanding Durability

USAGE

PK-1CR epoxy novolac is designed for use in secondary containment areas and for use as a floor and wall coating.

PK-1CR is extremely well suited for usage in areas requiring a high degree of chemical resistance to a wide range of chemicals, as well as outstanding durability.

PK-1 CR may be applied with or without aggregate and can also be used as a sealer or glaze coat for protection over standard epoxy floor systems.

LIMITATIONS

All surfaces must be clean and sound. Surface laitance must be removed.

PROPERTIES

Tensile Strength	
ASTM D 638.....	6000 psi
Tensile Elongation.....	3.5 %
Flexural Strength	
ASTM D 790.....	12,000 psi
Compressive Strength	
ASTM C-579.....	15,500 psi
Hardness	
Shore D.....	75
Pot Life.....	30-35 min
<i>Initial Set</i>	
light traffic.....	10-12 hours @ 75° F.
Heavy traffic.....	24 hours @ 75° F.
Curing temp limit.....	45° F (minimum)
Mix Ratio.....	2:1 by Volume

STANDARD COLORS (Use Absolute pigment LD-ED") Gray • Tile Red • Tan (Non-standard colors are available by special order.)

COVERAGE

- 53 sq ft/gallon @ 30 mils
- 27 sq ft/gallon @ 60 mils
- 16 sq ft/gallon @ 100 mils

Absolute Protective Coatings

PACKAGING

1.5 gallon kit

Net Volume A: 1 gallon (10 pounds)

Net Volume B: half gallon (4.5 pounds)

4.5 gallon kit

Net Volume A: 3 gallons (30.1 pounds)

Net Volume B: 1.5 gallons (13.6 pounds)

INSTALLATION GUIDELINES

PRE-OVERLAY CHECKLIST

1. All substrates shall be sound, solid and free from any loose or failing components. Substrates must not flex or deform under load. All surfaces must be free from previously applied coatings, dust, rust, scale, grease, oil, and other bond breaking contaminants.
2. Cracks greater than 1/6 inch in width shall be routed to a minimum of 1/4 inch wide by 1/4 inch deep and filled with approved filler.
3. Fill all expansion joints as required .
4. All application equipment shall be in good operating condition.
5. Coating materials shall not be applied when the ambient air temperature or the surface temperature is outside the boundaries as stated on the product data sheets and application guidelines.
6. Keep material out of sun or hot areas prior to applying, as this may cause working time to be diminished and could cause poor appearance and/or adhesion.

SURFACE PREPARATION

1. Prepare surface to a minimum CSP-3 profile, removing all surface contaminants, including sealers, oils, or other bond inhibiting substances. Mechanically abrade by shotblasting, or other means to provide a coarse (rough) texture.
2. Rout out all cracks to a minimum of 1/2" wide

by 1/2" deep, using concrete saw equipped with dry cut crack chasing blade.

3. Vacuum surface free of all dust and dirt.
4. Fill all routed cracks with Absolute Protective Coatings approved material.

MIXING AND INSTALLATION INSTRUCTIONS

If adding pigment:

Add pre-measured color pack to resin (part A) and blend for two minutes or until thoroughly and evenly dispersed with a Jiffy Paddle.

1. Blend Part A with slow speed drill and Jiffy Mixer for two minutes.
2. Add Part B to Part A and continue mixing for 3 minutes or until uniform.

NOTE: When mixing, submerge mixing blade into product to minimize air entrapment.

3. Apply using roller (high-quality, shed resistant, low-lint, 3/16" or 3/8" nap roller), squeegee.
4. Immediately after mixing pour material onto floor in ribbons or bands.
5. Spread to specified thickness using notched squeegee and back roll with approved roller.

NOTE: In humid environments PK-1 CR may develop what is known as an "epoxy blush" during cure. Therefore, for applications requiring more than one coat carefully examine coating for signs of blush (a greasy, whitish film or low gloss). Remove blush with warm water and detergent, rinse thoroughly. Blush may also be removed with solvent wipe. If more than 24 hours between coats sand with 36 grit sand paper and floor buffer and remove dust with tack cloth prior to coating.

NON-SKID APPLICATIONS

Heavy Duty/Forklift Traffic

1. Broadcast choice of Unimin, Emery, or White Aluminum Oxide into uncured coating.

2. Wait a minimum of 8 hours before topcoating.
3. Apply additional PK-1 CR topcoat to lock-in traction aggregate following MIXING AND INSTALLATION INSTRUCTIONS

APPLICATION OVER EXISTING EPOXY COATING

1. Clean coating of all dirt, grease, oil or other contaminants by washing with degreaser or soap.
2. Rinse well with fresh water and dry.
3. Sand with sand paper, 36 grit on a floor buffer type sander.
4. Remove dust by vacuum and tack cloth.
5. Apply PK-1 CR at specified thickness.
6. Allow 24 hours to cure before returning to service.

CLEAN UP

1. Clean tools immediately after use with Xylene or MEK.

MATERIAL SAFETY DATA SHEETS

Material safety data sheets are available upon request. It is strongly recommended that all persons involved in the handling of Absolute Protective Coatings products read them.

WARRANTY NOTICE

Recommendations for product use based on tests believed to be reliable. Field conditions vary widely. For this reason, the user must determine product suitability for the particular use and specific applications. Absolute Protective Coatings warrants that this product will be free of manufacturing defects for a period of (12) twelve months from date of manufacture. Absolute Protective Coatings will, at its option, replace any material or will refund the purchase price of any material that does not conform to our standard specifications, if the discovery of non-compliance is made within (1) one year of delivery of material. Absolute Protective Coatings liability and obligation is limited only to replacement or refund of product. Absolute Protective Coatings assumes no liability for injury, loss or damage resulting from use of this product.

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