

PRODUCT DATA SHEET

Product: **PK-3**
Version: September 1 2015

Absolute Protective Coatings

Decorative matte finish is available in a variety of colors and finishes

TECHNICAL DATA

DESCRIPTION

PK-3 is a water-borne, epoxy coating and resurfacer for medium to heavy traffic areas. This seamless resurfacer provides a smooth, matte finish in a selection of colors.

PK-3 is used in processing and manufacturing plants as well as institutional and industrial facilities requiring a tough, long-lasting floor coating which is easy to clean.

PK-3 provides a flooring system with high permeability and excellent moisture vapor resistance. PK-3 is designed to mix easily and has outstanding bonding properties.

Voc Content: 0.0 g/l

TYPICAL APPLICATIONS

- ✓ Industrial Facilities
- ✓ Pulp and Paper Mills
- ✓ Machine Shops
- ✓ Institutional Facilities
- ✓ Moisture Vapor Prone Areas
- ✓ High Traffic Entrance's and Lobbies

FEATURES

Excellent Adhesion to green concrete after only 24 hours

Self-leveling & Trowelable

Resists Moisture Vapor Transmission

Superior Bonding to properly prepared concrete substrates

Outstanding Wearability, Impact and Abrasion Resistance

Safe-Very low free-amine content

Easily Mixed with conventional "Jiffy" paddle mixer and drill motor

Good low temperature cure

Easy to Clean and maintain

USAGE

PK-3 is specified and used in industrial and commercial flooring applications requiring a durable coating to withstand medium to heavy traffic or for concrete that is worn or eroded and requires a higher build to achieve the proper finish. PK-3 can be installed as smooth or non-skid.

A variety of standard colors is available to allow facility managers, contractors, and specifiers to complement existing décor with a tough, long-lasting coating in a cost-effective manner. Add flakes / color quartz to achieve a more decorative surface. For extreme wear applications add ESL-Ceramic or emery plate filler.

LIMITATIONS

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

PROPERTIES - with ESL-3 filler

VOC (lb/gal).....0.0

Volume solids (%).....70%

Water vapor permeability.....0.15 perm inches

Co-efficient of friction.....0.28

Hardness (shore D).....80

Bond strength to concrete (psi).....500

Weight loss mg/1000 cycles.....156

ASTM E96 Test Results (120 mil DFT) - with ESL-3 filler

Water vapor transmission grains/hour.ft2.....1.0468

Water vapor transmission grains/hour.m2.....0.7269

Water vapor transmission lbs/24 hour.1000 ft2.....3.5765

Perms (permeance).....2.50

Permeance-g/Pa.S.m2.....1.40 x 10.7

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ASTM E96 Test Results (65 mil DFT) - with ESL-3 filler

Water vapor transmission grains/hour.ft2.....	1.3896
Water vapor transmission grains/hour.m2.....	0.9650
Water vapor transmission lbs/24 hour.1000 ft2.....	4.7480
Perms (permeance).....	3.30
Permeance-g/Pa.S.m2.....	1.90 x 10.7

STANDARD COLORS (Use Absolute Concrete Powdered Pigment) GRAY • TAN • OFF WHITE
(Non-standard colors are available by special order)

COVERAGE

- Approx. 80 sq ft/gallon @ 20 mil thickness –WFT
- Approx. 40 sq ft/gallon 40 mil thickness –WFT
- Approx. 20 sq ft/gallon 80 mil thickness –WFT
- Approx. 16 sq ft/gallon 100 mil thickness –WFT
- Approx. 13 sq ft/gallon 125 mil thickness –WFT

PACKAGING

- 1.8 gallon resin system
- Net Volume A: .5 gallon (4.18 pounds)
- Net Volume B: 1.3 gallons (11.2 pounds)
- Net Volume C: ESL-3 Filler 30 lb bags

PACKAGE YIELD

- 10 - 20 mil thick coating - WFT*
- 1.8 gal unit + 14 lbs (1 gal) of ESL-3 covers 360 - 180 sf
- gal unit + 54 lbs (3.89 gal) of ESL-3 covers 1400 - 700 sf
- 20 - 40 mil thick coating - WFT*
- 1.8 gal unit + 20 lbs (1.5 gal) of ESL-3 covers 200 - 100 sq. ft.
- gal unit + 78 lbs (5.8 gal) of ESL-3 covers 700 - 389 sq. ft.
- 40 - 80 mil thick coating - WFT*
- 1.8 gal unit + 25 lbs (1.75 gal) of ESL-3 covers 100 - 60 sq. ft.
- gal unit + 97 lbs (6.8 gal) of ESL-3 covers 389 - 233 sq. ft.

SHIPPING WEIGHT

- Resin Systems - 10 lbs per gallon (approximate)
- Fillers - 30 lb bags (ESL-3)

INSTALLATION GUIDELINES

PRE-OVERLAY CHECKLIST

1. All substrates shall be sound, solid and free from any loose or failing component. 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.
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. If room and or concrete surface is hot (85 deg F or more) you can spray with cool water and soak for a short period to cool surface. Vacuum the surface free of water prior to applying overlay (surface does not need to be completely dry). This will help with working time and help prevent the overlay from setting to fast to get good penetration into pores.
7. Product shall be maintained and installed at 50-80 deg F temperature.
8. Substrate temperature range must be 50-80 deg F, consult Absolute for low temp cure.

SURFACE PREPARATION

1. Prepare surface to a minimum CSP-3 profile, removing all surface contaminants, including sealers, oils, or other bond inhibiting substances and mechanically abrade by shotblaster, scarifier,

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- bushing hammer, scabblor or other means to provide a coarse (rough) texture.
2. Cut keyway channel (groove), using concrete saw equipped with dry cut diamond blade around perimeter of area to be resurfaced. Keyway channel (groove) depth shall be a minimum of 1/8" depth. Surfaces adjacent to a vertical plane (such as curbs, walls, tanks, etc.) shall have keyway channels cut approximately 4 – 6 inches back from vertical plane towards the interior of area to be resurfaced. Keyway channel shall be 1/8" deep by 1/8" wide.
 3. Chip 2 inch wide taper back from interior edge of keyway channel at all termination edges, ie: drains, doors etc.; using bush hammer equipped with a 1 – 2 inch wide bushing head, chip a 2" wide taper back from edge of interior keyway channel (groove) inward towards the area being resurfaced. Taper shall match depth of keyway channel at it's deepest point which is the edge of the keyway and taper out to 0" at its most shallow point, 2" inches towards the interior of the area to be resurfaced.
 4. 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.
 5. Vacuum surface free of all dust and dirt.

ESL-3

Self-Leveling Slurry Resurfacer

1. One batch consists of 1/2 gallon A, 1.3 gallons B, and 35 lbs of C (ESL-3) Filler. One mixed batch will yield approximately 3 gallons of slurry goodness.
2. Pour contents of Part B (1.3 gallon) into clean 5 gallon pail. Then Pour contents of part C (filler) into the same 5 gallon pail that contains Part B.
3. Immediately and thoroughly mix B and C components together for a minimum of 1 minute, using slow-speed drill motor (450-750 rpm) and jiffy paddle, until thoroughly blended, scrape side of pail then mix minimum minute more.
4. Pour part A, resin, components into mixer or mixing drum and mix with jiffy paddle.
5. Immediately pour onto floor in ribbons and spread with a gage rake at 100-125 MILS thickness and back

roll with approved roller to level coating. A spike roller will help level coating and reduce chance of pin holes.

6. For 80-100 mils reduce filler to 25 lbs
7. For 40-80 mils reduce filler to 20 lbs and spread with squeegee and back roll with carpet stipple roller cover .
8. For 20-40 mils reduce filler to 20 lbs and add 1 pint (16 oz) of water. Spread with squeegee and carpet roller.
9. For 3/16" - 3/8" overlay add 10 lbs ESL-3 filler and 100 lbs ET-4 filler, trowel apply.
10. for extreme highwear- add emery plate filler 25 lbs with ESL-3 (apply at min of 3/16"-1/4"
11. For thin film-(12-15 Mil)roll on for high wear at 11 lb bag of ESL-3 ceramic Filler in place of standard ESL-3

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 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 , warrants that this product will be free of manufacturing defects for a period of (12) twelve months from date of manufacture. Absolute 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 liability and obligation is limited only to replacement or refund of product. Absolute assumes no liability for injury, loss or damage resulting from use of this product.

CORPORATE CONTACT

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