

Absolute Protective Coatings

TECHNICAL DATA

DESCRIPTION

UK-3000 urethane overlay, with fast cure rates, resistant to thermal shock, steam cleaning and heat.

This unique chemistry provides for fast cure, no odor and a material that is VOC compliant. VOC content: Trace VOC (less than 24 g/l). The result is a durable, long-lasting overlay for industrial and food processing environments.

TYPICAL APPLICATIONS

- ✓ Dairies
- ✓ Bakeries
- ✓ Warehouses
- ✓ Traffic Aisles
- ✓ Loading Docks
- ✓ Pulp & Paper Mills
- ✓ Industrial Facilities
- ✓ Freezers & Coolers
- ✓ Kitchens
- ✓ Food Processing Facilities
- ✓ Bottling Plants, Breweries & Distilleries

FEATURES

Bonds without Primer

No priming required in most applications. Bonds to concrete, asphalt, steel & wood. For damp concrete or if outgassing is a concern, consult Absolute Protective Coatings for primer recommendation.

Moisture Breathable

Seals and Protects

Seals substrate, protecting from further chemical attack. Long lasting

Fast Cure

Traffic ready in 8-12 hours.

Safe and Easy to Apply

Non-flammable, no odor, no peroxides or heavy

metals.

Withstand Thermal Shock

Impact Resistant

Chemically Resistant

Non-Skid or Smooth Finish

VOC Compliant

Does not Soften at High Temps

Supports Heavy Loads

High Wear

Not Moisture Sensitive

USAGE

RESURFACE CONCRETE

REPAIR & PATCH CONCRETE

PROTECT PAVEMENT FROM CHEMICAL ATTACK

CREATE NON-SKID SURFACES

LIMITATIONS

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

PROPERTIES

Tensile Strength.....860 psi

Compressive Strength.....7370 psi

Flexural Strength.....1885 psi

Mixing Ratio.....1:1 by volume

STANDARD COLORS (Use Absolute Protective Coatings Powdered pigment)

Standard Colors

(contact your rep for a current color chart)

COVERAGE

w/UT-4 Filler

Approx. 6.25 sq ft/gallon @ 1/4" thickness (250 mils)

w/USL-3 Filler - Trowel System

Approx. 6.25 sq ft/gallon 1/4" thickness (250 mils)

w/USL-3 Filler - Slurry System

Approx. 12.5 sq ft/gallon 1/8" thickness (125 mils)

w/US-3 filler

Approx. 100 sq ft @ 15 mils -WFT

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PACKAGING

Please note that 8 gallon kits are comprised of 4 gallons Part "A" plus 4 gallons Part "B".

US-3 Primer/Sealer/Topcoat System

8 gallons resin + 1 40 lb bag filler = 9 gallon yield

USL-3 Slurry System

8 gallons resin + 2 60 lb bags filler = 12 gallon yield

USL-3 Trowel System

8 gallons resin + 4 60 lb bags filler = 20 gallon yield

UT-4 Severe Duty Trowel System

8 gallons resin + 8 50 lb bags UT-4 filler = 28 gallon yield.

$\frac{3}{8}$ " for maximum thermal shock and heat resistance.

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 $\frac{1}{16}$ " inch in width shall be routed to a minimum of $\frac{1}{4}$ " inch wide by $\frac{1}{2}$ " inch deep and filled with R-60 or PF-60 materials.
3. Fill all expansion joints as required – using PF-60.
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 ap-

pearance 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.

7. 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.
8. Product shall be maintained and installed at 50 – 80 deg F, for cold temp application consult Absolute Protective Coatings.
9. Substrate temperature range must be 50-80 deg F (consult Absolute Protective Coatings for cold temp application).

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 shotblaster, scarifier, bushing hammer, scabber 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 $\frac{1}{2}$ " 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 $\frac{1}{2}$ " deep by $\frac{1}{2}$ " 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 or chipping gun equipped with a 1 – 2 inch wide spade blade, 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"

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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 ¼" wide by ½" deep, using concrete saw equipped with dry cut crack chasing blade.
5. Vacuum surface free of all dust and dirt.

US-3 Grade Filler (Min 10 mils/Max 30 mils)

UK-3000 US-3 Grade is can be used as a sealer, topcoat, or primer.

For mixing purposes, one batch consists of 2 gallons A, 2 gallons B, and 17.5 lbs of C (US-3) Filler

1. Pour 2 gallons Part A into clean, dry 5 gallon pail. Then pour 2 gallons Part B into the same 5 gallon pail that contains Part A.
2. Immediately and thoroughly mix A and B components together for a minimum of 1 minute, using slow-speed drill motor (450-750 rpm) and jiffy paddle, until thoroughly blended.
3. As mixer is turning, slowly add 1/2 bag (17.5 lbs) Part C (US-3) filler and mix for a minimum of 3 minutes or until filler is thoroughly saturated. Resulting polymer slurry will flow smoothly through mixing paddle.
4. Immediately pour in ribbons over base coat and spread with a carpet stipple roller cover. Use downward pressure to spread to proper thickness and back roll to remove roller marks. For more texture, lightly seed grit into wet sealer and back-roll to encapsulate grit.

USL-3 Grade Filler (Min 40 mils/Max 125 mils)

UK-3000 USL-3 is used as a self-leveling resurfacer and overlay system.

For mixing purposes, one batch consists of 1 gallon A, 1 gallon B, and 30 lbs of C (USL-3) Filler.

1. Pour 1 gallon Part A into clean, dry 5 gallon pail. Then 1 gallon Part B into the same 5 gallon pail that contains Part A.
2. Immediately and thoroughly mix A and B components together for a minimum of 1

minute, using slow-speed drill motor (450-750 rpm) and jiffy paddle, until thoroughly blended.

3. As mixer is turning, slowly add 1/2 bag (30 lbs) Part C (USL-3) filler and mix for a minimum of 3 minutes or until filler is thoroughly saturated. Resulting polymer paste will flow smoothly through mixing paddle.
4. Immediately pour onto floor in ribbons and spread to 1/8" thickness (36 sq ft per batch of mix @ 12 sq ft/gallon) and roll with spike roller to level.

USL-3 - Trowel Grade (Min 125 mils/Max 250 mils)

UK-3000 USL-3 Trowel Grade is used as a standard duty trowel down system for overlays that are typically ¼" (125 mils) or greater in thickness.

For mixing purposes, one batch consists of 1 gallon A, 1 gallon B, and 60 lbs of C (USL-3) Filler.

1. Pour 1 gallon Part A into clean, dry 5 gallon pail. Then pour 1 gallon Part B into the same 5 gallon pail that contains Part A.
2. Immediately and thoroughly mix A and B components together for a minimum of 1 minute, using slow-speed drill motor (450-750 rpm) equipped with jiffy paddle, until thoroughly blended.
3. Pour mixed A & B components into mortar mixer or mixing drum (KOL type mixer, or equivalent).
4. As mortar mixer is turning, slowly add 1 bag (60 lbs) Part C filler and mix for a minimum of 3 minutes or until filler is thoroughly saturated.
5. Immediately dispense resulting polymer paste compound onto floor and trowel using 3x12 concrete finish trowel to proper thickness (minimum of 3/16"-1/4").
6. Once first batch is troweled on floor, scrape away a palm fist sized amount of troweled polymer paste to verify polymer paste is thoroughly wetting concrete substrate.
7. Immediately after troweling, roll with plastic

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loop roller roller to give even finish and re-move any imperfections. If coarser finish is desired, seed to with non-skid grit. Apply seal coat if desired.

UT-4 Severe Duty Trowel Grade (Min 375 mils/1000 mils Max)

UK-3000 UT-4 Severe Duty Trowel Grade is used when a trowel down overlay system must provide a high level of protection from thermal shock, steam cleaning, chemical attack, and impact.

For mixing purposes, one batch consists of 1 gallon A, 1 gallon B, and 100 lbs of C (UT-4) Filler.

1. Pour 1 gallon Part A into clean, dry 5 gallon pail. Then pour 1 gallon Part B into the same 5 gallon pail that contains Part A.
2. Immediately and thoroughly mix A and B components together for a minimum of 1 minute, using slow-speed drill motor (450-750 rpm) equipped with jiffy paddle, until thoroughly blended.
3. Pour mixed A & B components into mortar mixer or mixing drum (KOL type mixer, or equivalent).
4. As mortar mixer is turning, slowly add 2 bags (100 lbs) Part C filler and mix for a minimum of 3 minutes or until filler is thoroughly saturated.
5. Immediately dispense resulting polymer mortar onto floor and trowel using 3x12 concrete finish trowel to proper thickness (minimum of 1/4"). 3/8" for maximum thermal shock and heat resistance.
6. Once first batch is troweled on floor, scrape away a palm fist sized amount of troweled polymer paste to verify polymer paste is thoroughly wetting concrete substrate.
7. Using a concrete pool trowel, smooth finish to remove trowel marks and seal surface.
8. Within 15 minutes after troweling, roll lightly with 1/4" nap mohair roller to give even finish and remove any imperfections.
9. OPTIONAL-For non-skid surface, seed to saturation with 30/16 grit sand and apply optional seal coat.

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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