WATER-BASED ACRYLIC FLOOR COATING

K0500 Series

Product Data Sheet

KRYLON INDUSTRIAL COATINGS™

DESCRIPTION

Water-Based Acrylic Floor Coating is a general purpose, interior/exterior, 100% acrylic, low odor, waterborne floor coating. This product dries rapidly to a tough, alkali resistant finish which will withstand hard wear, abrasion, grease, oils, and cleaning equipment.

ADVANTAGES

- One component
- Fast dry
- Slip resistant properties
- Abrasion resistant
- Water clean-up
- Acceptable for use in federally inspected meat and poultry plants

RECOMMENDED USES

For use over prepared concrete and wood floors, steps, stairwells, aisleways, or previously painted floor surfaces in sound condition.

- Laboratories
- Light assembly and production areas
- Hospitals
- Industrial/commercial office areas
- Helipads
- Not recommended for areas subject to hot tire pickup

SPECIFICATIONS

Concrete Floors:
2 cts. Water-Based Acrylic Floor Coating (K0500 Series)
@ 1.5 - 2.0 mils dft/ct

Wood Floors:
1 ct. Alkyd Wood Primer
2 cts. Water-Based Acrylic Floor Coating (K0500 Series)
@ 1.5 - 2.0 mils dft/ct

Previously Painted Floors in Sound Condition:
1-2 cts. Water-Based Acrylic Floor Coating (K0500 Series)
@ 1.5-2.0 mils dft/ct

SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Poured Concrete (new): Surfaces must be clean, dry, sound and offer sufficient profile to achieve adequate adhesion. Minimum substrate cure is 28 days at 75°F. Remove all form release agents, curing compounds, salts, efflorescence, laitance, and other foreign material by sandblasting, shotblasting, mechanical scarification, or suitable chemical means, such as muriatic acid etch, refer to ASTM D4260. Rinse thoroughly to achieve a final pH between 6.0 and 10.0. Allow to dry thoroughly prior to coating.

Poured Concrete (old): Surface preparation is done in much the same manner as new concrete. However, if the concrete is contaminated with oils, grease, chemicals, etc., they must be removed by cleaning with a strong detergent. Refer to ASTM D4258. Form release agents, hardeners, etc. must be removed by sandblasting, shotblasting, mechanical scarification, or suitable chemical means. If surface deterioration presents and unacceptably rough surface, patch and resurface damaged concrete.

SURFACE PREPARATION cont.

Wood: Surface must be clean, dry and sound. Remove any oils and dirt from the surface using a degreasing solvent or strong detergent. Sand to remove any loose or deteriorated surface wood and to obtain a proper surface profile. Prime with an alkyd wood primer and paint as soon as possible. No painting should be done immediately after a rain or during foggy weather. Knots and pitch streaks must be scraped, sanded and spot primed before full coat of primer is applied. All nail holes or small openings must be properly caulked.

Previously Painted Surfaces: If in sound condition, clean the surface of all foreign material. Smooth, hard or glossy surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, additional abrasion of the surface and/or removal of the previous coating may be necessary. Retest surface for adhesion. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above.

Note: Fill all cracks, voids and bugholes with Crack Filler (K05100004).

Always Follow the ASTM Methods Listed Below:
ASTM D4258 Standard Practice for Cleaning Concrete.
ASTM D4259 Standard Practice for Abrading Concrete.
ASTM D4260 Standard Practice for Etching Concrete.
ASTM D4263 Plastic Sheet Method for Checking Moisture in Concrete.
No Primer Required.

APPLICATION

APPLICATION CONDITIONS

Temperature: 50°F minimum, 100°F maximum (air, surface, and material). At least 5°F above dew point
Relative humidity: 85% maximum

APPLICATION EQUIPMENT

Reducer/Clean-up: Water

Methods: Brush and Roll

Brush: Nylon/Polyester. Reduction: As needed, up to 6% by volume

Roller: 1/4" - 3/8" woven with phenolic core
Reduction: As needed, up to 6% by volume

Note: If specific application equipment is listed above, equivalent equipment may be substituted.

APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mixing Instructions: Mix paint thoroughly by boxing and stirring before use. Avoid vigorous agitation. Make certain no pigment remains on bottom of can. Apply paint at the recommended film thickness and spreading rate as indicated.

Slip Resistance: For additional slip resistance on steps, or in areas where occasional liquids may pose a safety hazard, add one 3.2 oz. package per 1 gallon container or one 16 oz. package per 5 gallon container of Shark Grip Skid Resistant additive. Stir in thouroughly before applying.

APPLICATION cont.

Tinting: Do not tint package colors. White and Clear Bases tint at 100% strength with **Blend-A-Color®** colorants. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.

PERFORMANCE TIPS

- During the early stages of drying, the coating is sensitive to rain, dew, high humidity, and moisture condensation. If possible, plan painting schedules to avoid these influences during the first 16-24 hours of curing.
- Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, an excessive film build.
- Excessive reduction of material can affect film build, appearance, and adhesion.
- This product is not slip resistant where moisture, water, grease, or other liquids may be present.

CHARACTERISTICS

FINISH: Semi-Gloss

COLORS: Gray, Deck Gray, Tile Red, White, White Base and Clear Base

VOLUME SOLIDS: 43% ± 2%, may vary by color

WEIGHT SOLIDS: 55% ± 2%, may vary by color

VOC (EPA Method 24): 150 g/L; 1.25 lb/gal

RECOMMENDED SPREADING RATE:
Wet mils: 3.5 - 4.5
Dry mils: 1.5 - 2.0
Coverage: 345 - 460 sq ft/gal approximately
Note: Apply by brush or roller only.

DRYING SCHEDULE @ 77°F @ 50% RH @ 4.0 mils wet:
To touch: 30 minutes
To recoat: 4 hours
Foot traffic: 8 hours
Heavy traffic: 18 hours
Note: Drying time is temperature, humidity, and film thickness dependent.

SHELF LIFE: 36 months, unopened, at 77°F

FLASH POINT: >200°F (Pensky-Martens Closed Cup)

REDUCER/CLEAN-UP: Water

CHARACTERISTICS cont.

PERFORMANCE TESTS
System Tested: (unless otherwise indicated)
Substrate: Concrete
Surface Preparation: Clean, dry, sound
Finish: 2 cts. Water-Based Acrylic Floor Coating @ 4.0 mils dft
Abrasion Resistance: Method: ASTM D4060, CS10 wheel, 1000 cycles, 1 kg load; Result: No more than 37 mg loss
Adhesion: Method: ASTM D4541; Result: 702 psi; Method: ASTM D3359; Result: 5A
Direct Impact Resistance (on Steel): Method: ASTM D2794; Result: 30 in lb.
Dry Heat Resistance: Method: ASTM D2485; Result: 150°F sustained, 200°F intermittent
Flexibility: ASTM D522, 180° bend, 1/8" mandrel; Result: Passes
Humidity Resistance: Method: ASTM D4585, 500 hours; Result: Rating 10 per ASTM D714 for blistering
Pencil Hardness: Method: ASTM D3363; Result: F
Scrub Resistance (3 mils dft): Method: ASTM D2486, Section 8; Result: Passes 1000 cycles minimum
Slip Resistance: Method: ASTM D2047; Result: Average 0.82 static coefficient of friction
Wet Adhesion (one coat @ 2.0 mils dft): Method: TT-P-1511A, 6000 cycles; Result: Passes

CAUTIONS

Thoroughly review product label for safety and cautions prior to using this product. A Material Safety Data Sheet is available from your local Krylon Industrial Coatings™ Distributor. Please direct any questions or comments to your local Krylon Industrial Coatings™ Distributor.

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