RUST-OLEUM®

FASTKOTE® UV

DESCRIPTION AND USES

FastKote® UV is a is a high solids, single component, aliphatic moisture cure urethane that provides a high gloss, smooth finish with excellent protection from UV rays, abrasion, and many of today's harshest chemicals. FastKote UV provides reliable performance in a wide range of temperatures and climate conditions. For a beautiful satin finish, just add our Durability Plus additive. Ideal for interior, exterior horizontal and vertical use.

PRODUCT FEATURES AND BENEFITS

- Fast return to service time, can accept vehicle traffic in 24 hours
- UV stable, excellent chemical and abrasion resistance
- Easy roller application
- One gallon covers 400-500 square feet
- Unlimited pot life

PRODUCTS

SKU	DESCRIPTION (High Gloss)
277499	Clear 1 Gallon Kit
407951	Clear 2 Gallon Kit
407952	Light Gray 1 Gallon Kit
407953	Armor Gray 1 Gallon Kit
407954	Dunes Tan 1 Gallon Kit
407955	Safety Yellow 1 Gallon Kit

PACKAGING

Clear 1 Gallon Kit contains: 120 fl oz in can and 8 fl oz Stabilizer/Tint yields 1 gallon

Clear 2 Gallon kit is packaged with two, 1-gallon containers and two, 8oz stabilizer shots within a 3.5gallon pail

Color 1 Gallon Kits contain: 107 fl oz in can and 22 fl oz Stabilizer/Tint yields 1 gallon

RECOMMENDED PRIMER

- Hard Surface Primer
- TVB Water Based Topside Vapor Barrier
- TVB 100% Solids Topside Vapor Barrier
- FinishKote 70
- 6700 Decorative Epoxy
- 8000S General Purpose Epoxy
- 8000S FC Fast Cure Epoxy
- BuildKote

COMPANION PRODUCT

- 280945 Durability Additive

PRODUCT APPLICATION

READ ALL INSTRUCTIONS CAREFULLY BEFORE STARTING PROJECT

CONCRETE REPAIR

All spalls and cracks must be chased out and repaired to ICRI standards using an appropriate Concrete Saver patching material.

SURFACE PREPARATION

The concrete surface must be free of all dirt, grease, oil, fats, and other contamination (SSPC-SP1). Remove surface contamination by cleaning with Rust-Oleum® Professional Cleaner Degreaser, detergent, or other suitable cleaner. Rinse thoroughly with clean, fresh water and allowed to dry.

PRODUCT APPLICATION (cont.)

SURFACE PREPARATION (cont.)

NEW CONCRETE: New concrete should be allowed to cure for a minimum of 30 days. The concrete must be structurally sound, dry, and free of grease, oils, dust, curing compounds and other coatings or contaminants. Surface laitance must be removed. Rising moisture vapor emission rate must not exceed 3 lb. per 1000 sq. ft. over a 24-hour period as measured by calcium chloride test method ASTM F-1869. The preferred method of surface preparation is to mechanically abrade the floor by diamond grinding to achieve a final 80–120 grit finish, reference profile CSP-2 according to ICRI. FastKote UV is intended as a topcoat/wear coat and should be applied over one of the listed primers/base coats.

PREVIOUSLY COATED: Previously coated concrete must be in good sound condition with the existing coating tightly adhering to the concrete. In addition to the aforementioned cleaning the existing coating must be sanded to dull the finish and produce a slight surface profile. Remove all sanding dust by vacuum. Do not wipe the floor with denatured alcohol or other solvent. If wiping is necessary, use Methyl Ethyl Ketone (MEK) or Acetone.

MIXING

Important: Hand mixing will produce inconsistent results and is not an approved method.

Both components and environment should be pre-conditioned to a minimum of 50ºF (10ºC) prior to use. Be sure the air and surface temperatures are at least 5º above the dew point. FastKote UV is moisture sensitive, so be sure the outside of the container is dry and free of condensation.

Shake the container of Stabilized/Tint for one full minute before combining with the FastKote UV. After combining the components, power mix at 500-700 rpm for 2-3 minutes. Use an appropriate size mixer and use care to not entrain air into the product while mixing. **NOTE: Stabilizer must be added prior to application.** Once mixed, the material has a 6-month shelf life.

TINTING (Clear)

Pre-mix Universal Tint Packs prior to adding into floor coatings. Hand mixing until uniform in appearance is acceptable. Add Universal Tint Packs at 8 oz. per gallon of mixed floor coating material and combine thoroughly via power mix to achieve uniform colorant dispersal. **NOTE:** Some colors, including safety colors, may require additional coats if desired coverage is not achieved in the first application. ***UNIVERSAL TINT PACKS NOT FOR USE IN WATER BASED COATINGS***

EQUIPMENT RECOMMENDATIONS

ROLLER: Use a high quality ⅜ inch lint-free roller with a phenolic core.

BRUSH: Use a disposable natural fiber chip brush, 2-4 inch wide for cut in work.

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PRODUCT APPLICATION (cont.)

APPLICATION

Apply only when air, material and floor temperatures are between 50-90°F (10-32°C) and the surface temperature is at least 5°F (3°C) above the dew point. The relative humidity should not be greater than 85%. Do not apply in direct sunlight or when temperature is rising. Colder environmental conditions can slow the cure of FastKote UV. Be sure the substrate is completely dry. If coating over a smooth surface or previously coated surface, add 1 bag of the Durability Additive to optimize finish appearance. This will result in a slightly lower gloss.

Pour out only the amount of material to be used into a roller pan. Unused material can be saved in the can or the mixing container for up to 6 months provided it is properly sealed. Do not return unused material from the roller pan to the can or mixing container. Use a ⅜ inch, lint free roller with a phenolic core to roll out the coating. Begin with rolling out a W or M pattern, then cross roll to fill in and smooth out the coating.

NOTE: Do not exceed recommended coverage rate, as film defects are possible. Safety Yellow will require a two-coat application to achieve optimum hide.

THINNING

None required

CLEAN-UP

Methyl Ethyl Ketone (MEK).

PERFORMANCE CHARACTERISTICS

COMPRESSIVE STRENGTH
METHOD: ASTM C695
RESULT: 12,000

TENSILE STRENGTH
METHOD: ASTM D412
RESULT: 5,500

ELONGATION
METHOD: ASTM D14
RESULT: 75

COEFFICIENT OF FRICTION
METHOD: ASTM D1894
(When combined with a bag of Durability Additive)
RESULT: 0.69 Wet and 0.80 Dry

HARDNESS, SHORE D
METHOD: ASTM D2240
RESULT: 84

GLOSS
METHOD: ASTM D523 @60°
RESULT: 91+

ABRASION RESISTANCE
METHOD: ASTM 4060
CS 17 Wheel, 1,000 g load, 1,000 cycles
RESULT: 43

FastKote UV complies with USDA FSIS regulatory sanitation performance standards for food establishment facilities. This coating is impervious to moisture and easily cleaned and sanitized.

CHEMICAL RESISTANCE

CHEMICAL	RESULT
Acetic Acid 100%	RC
Acetone	R
Ammonium Hydroxide 50%	RC
Benzene	RC
Brake Fluid	RC
Brine saturated H2O	R
Chlorinated H2O	R
Clorox (10%) H2O	R
Diesel fuel	RC
Gasoline	R
Gasoline/5% MTBE	R
Gasoline/5% Methanol	R
Hydrochloric Acid 20%	R
Hydrofluoric Acid 10%	RC
Hydraulic fluid (oil)	RC
Isopropyl Alcohol	R
Jet Fuel (JP-4)	R
Lactic Acid	RC
MEK	RC
Methanol	R
Methylene Chloride	C
Mineral Spirits	R
Motor Oil	R
MTBE	C
Muriatic Acid 10%	R
NaCl/H2O 10%	R
Nitric Acid 20%	RC
Phosphoric Acid 10%	RC
Phosphoric Acid 50%	NR
Potassium Hydroxide 10%	R
Potassium Hydroxide 20%	R, Dis
Propylene Carbonate	RC
Skydrol	RC
Sodium Hydroxide 25%	R
Sodium Hydroxide 50%	R, Dis
Sodium Hypochlorite 10%	RC
Sodium Bicarbonate	R
Stearic Acid	R
Sugar/H20	R
Sulfuric Acid 10%	R
Sulfuric Acid >50%	R
Toluene	R
1, 1,1-Trichlorethane	C
Trisodium Phosphate	R
Vinegar/H2O 5%	R
H2O 14 days at 82°C	R
Xylene	NR

Chemical Resistance: Chart Key

R=recommended/little or no visible damage
RC=recommended conditional/some effect, swelling or discoloration
C=Conditional/Cracking-wash within one hour of spillage to avoid affects
NR=Not recommended
Dis=Discoloration

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PHYSICAL PROPERTIES

		FASTKOTE UV
Resin Type		Aliphatic Moisture Cure Urethane
Weight	**Per Gallon**	9.59 lbs./gal. Clear (finish colors are slightly higher and varies with color)
	Per Liter	1.1 kg Clear (finish colors are slightly higher and varies with color)
Solids By Volume		80%
Volatile Organic Compounds		<50 g/l*
Recommended Dry Film Thickness (DFT) Per Coat		2.5-3.5 mils
Wet Film to Achieve DFT (unthinned material)		3.2-4.2 mils
Practical Coverage Rate at Recommended DFT		300-400 sq. ft./gal. Coverage rate can vary depending on the texture and porosity of the concrete
Dry Times @ 72ºF @ 50% Relative Humidity†	**Recoat****	4-12 hours***
	Light traffic	4-6 hours
	Full traffic	24 hours
Shelf Life		18 months unopened 6 months once the Stabilizer/Tint has been added
Flash Point		>200°F (93°C)
Safety Information		For additional information, see SDS

Calculated values are shown and may vary slightly from the actual manufactured material.
† Dry times will be increase if temperatures are less than 65º F (18ºC) and /or Relative Humidity is less than 50%.
* Calculated applied VOC
** As temperature, humidity, and dew points rise, re-coat windows are drastically shortened. Please contact Tech Service for recommended installation practices.
*** If 12 hour recoat time has elapsed, the coating must be sanded prior to recoating.

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