RUST-OLEUM®

8100 SYSTEM
OVERKRETE® XTRA OP
PREMIUM 100% SOLIDS EPOXY FLOOR COATING - ORANGE PEEL

DESCRIPTION AND USES

OverKrete® Xtra OP provides an "orange peel" finish. It is designed for long term protection of concrete in light to medium service areas, typically for foot traffic and rubber covered wheel traffic.

This premium formulation provides improved color and gloss retention over standard epoxy floor coatings.

OverKrete Xtra OP is virtually 100% solids copolymer resin systems, essentially equivalent to the resin systems used in the ¼ inch OverKrete floor topping.

FEATURES AND BENEFITS

CORROSION RESISTANCE

OverKrete Xtra OP coatings are resistant to a wide range of chemicals. Due to the thinness of these coatings, it is not recommended for continuous or prolonged exposure to chemicals. For more detailed chemical resistance information, refer to the Product Recommendation Guide.

PACKAGING

OverKrete Xtra OP is packaged in two kit sizes: 1 gallon and 3 gallon. Mixing ratios are shown on the product labels.

COLORS

OverKrete Xtra OP is available in thirteen standard colors and custom colors are available upon request.

PRODUCTS

1-Gallon	3-Gallon	Description
237203	237204	Natural
237209	237210	Clear
237213	237214	National Blue
237217	237218	Light Green
237221	237222	Safety Yellow
237225	237226	Tile Red
237229	237230	Black
237233	237234	Dunes Tan
237237	237238	Dark Gray
237241	237242	Light Gray
237245	237246	Navy Gray
237249	237250	White
241646	241648	Super Light Gray

TYPICAL USES

OverKrete Xtra OP is used where one or more of the following properties are required:

- Splash and spill corrosion resistance
- High wear resistance
- Elimination of concrete dusting
- Easy to clean and maintain
- Aesthetically pleasing surfaces

OverKrete Xtra OP requires a primer (Penetrating Prime & Seal Primer or Prime & Seal Primer) and should not be applied directly over concrete. It is also not recommended for use as a glaze coat over any of the HD full broadcast systems. Use the "S" versions as a glaze coat.

INDUSTRIAL & COMMERCIAL APPLICATIONS

Electronic industry
Power plants
Automotive assembly
Automotive showrooms
Airport baggage handling and ramps
Wineries
Breweries
Bottling industries
Beverage industries
Chemical plants
Meat packing and poultry plants
Dairies
Food processing plants
Bakeries
Schools
Hospitals
Pharmaceutical and chemical laboratories
Restaurants
Industrial lunchrooms and dressing rooms
Waste water treatment plants
Fire stations

PRODUCT APPLICATION

SURFACE PREPARATION

Concrete must be sound, clean, and visibly dry. Irregularities in the concrete should be filled. OverKrete Xtra OP requires use of a primer (Penetrating Prime & Seal Primer or Prime & Seal Primer) and should not be applied directly over concrete.

The concrete, ambient, and material temperatures should be 65-90°F at time of application. Allow the primer to cure for 6-8 hours before application of OverKrete Xtra OP.

PRODUCT APPLICATION (cont.)

MIXING

Hand mixing is not adequate. You must combine the base and activator by power mixing using either a 3" Jiffler Mixer or Hanson Plunge Mixer. Mix at 500-750 rpm for 1-3 minutes. Do not over mix or use higher speeds. This can introduce air into the coating causing small bubbles in the finish.

Start mixing the OverKrete S part A and immediately add the part B activator. It is very important to transfer as much part B activator as possible, scrape the sides and bottom of the container thoroughly. Mix the two components together for 1-3 minutes being careful to not pull air into the mixture.

Immediately pour the mixture out onto the marked off area of the floor in a long thin stripe. Do not try to work out of the container or put the material in a roller pan as heat will build up and shorten pot life and work time, and could be hazardous. The material on the floor will be workable for about 20 minutes.

NOTE: Do not scrape the sides or bottom of the container. Use only the material that flows naturally out of the container. Also, do not turn the container upside down and leave on the floor to drain. Doing so may result with unactivated material from the sidewall of the container being applied. This will cause soft spots in the coating.

EQUIPMENT RECOMMENDATIONS

SQUEEGEE: Use a high quality rubber squeegee.

ROLLER: Use a high quality short nap (¼-⅜") lint-free roller with a phenolic core such as Rust-Oleum Roller No. 6696.

APPLICATION

Apply only when air and floor temperatures are between 60-80°F. Because of the short pot life, it is recommended the application of the coating be limited to small sections. One activated gallon of OverKrete S will cover 100 square feet at 16 mils. This can be achieved with a single coat application, however, on bare concrete there is a risk of outgassing from small pinholes and voids in the concrete during the curing of the coating which will form blisters in the finish.

To greatly reduce the risk of blisters we recommend that bare concrete be first primed with Prime & Seal™ Primer or Penetrating Prime & Seal™ Primer. Refer to the Technical Data Sheet for the primer for more information and application instructions.

NOTE: Outgassing only occurs when there is a rise in temperature causing entrapped air in pinholes to expand. The risk of blisters can also be reduced by avoiding application of the coating during times of the day where temperatures may increase.

PRODUCT APPLICATION (cont.)

After the primer has cured, mark off the floor into 100 square foot sections. Coating this area with one gallon of activated OverKrete S finish will yield a film thickness of 16 mils. On previously coated floors where outgassing is not a problem, the OverKrete S can be applied directly to the floor in a single coat application of 16 mils. Mark out the floor into 100 square foot sections for coverage with one gallon of activated material.

After pouring the material onto the floor, use a rubber squeegee to spread the material out over the entire section. Roll the material smooth using a ⅜" nap, lint free roller with a phenolic core. Make all final passes parallel and in the same direction. Do not roll excessively and do not re-roll the material after the final passes are made. Doing so may result in color variations.

NOTE: Change the roller cover every 30 minutes and always mount it on the roller frame in the same direction.

After completing the section repeat the process on the adjacent section, overlapping the prior application approximately 6 inches to blend the coating together. Natural breaks in the floor, such as control joints or expansion joints, should be used as stopping points if the entire floor cannot be completed in one day. The coated floor will be ready for foot traffic 10 hours after application of the final coat. The coating will be ready for full use in 48-72 hours at 70-80°F and 50% relative humidity. Do not detergent wash the floor for 5 days after application.

COVERAGE

10-16 mils orange peel finish

OverKrete Xtra OP is applied in two coats of 5-8 mils each.

1st application is 200-320 sq. ft. /gal. (5-8 mils)

2nd application is 200-320 sq. ft. /gal. (5-8 mils)

Thickness determines texture. Do not exceed 8 mils.

SET TIME

OverKrete Xtra OP cures adequately for next coating step in 8-10 hours at 70°F.

PRODUCT APPLICATION (cont.)

CLEAN UP

Xylene can be used to remove material from equipment if it is cleaned before the material has started to set up; otherwise, stronger solvents such as methylene chloride will be necessary.

SAFETY

OverKrete Xtra OP contains amine curing agents. Avoid skin contact. In case of eye contact or ingestion, contact a physician immediately. In case of skin sensitivity to these materials, use protective clothing and gloves.

MATERIAL SAFETY DATA SHEETS

Material Safety Data Sheets are available upon request. It is strongly recommended that they be read by all persons handling OverKrete Xtra OP.

If there are any questions on the use of this product, please consult our technical service department.

PERFORMANCE CHARACTERISTICS

COMPRESSIVE STRENGTH

METHOD: ASTM C579

TYPICAL VALUE: 7,900 psi

FLEXURAL STRENGTH

METHOD: ASTM C580

TYPICAL VALUE: 3,700 psi

TENSILE STRENGTH

METHOD: ASTM C638

TYPICAL VALUE: 3,900 psi

TABER ABRASION

METHOD: ASTM 4060, CS 17

TYPICAL VALUE: Loss/1,000 cycles = 30 mg.

FILM HARDNESS, SHORE D

METHOD: ASTM D2240

TYPICAL VALUE: 85

PHYSICAL PROPERTIES

		OVERKRETE® XTRA OP
Resin Type		Polyamine converted epoxy
Pigment Type		Varies depending on color
Solvents		Benzyl Alcohol
Weight*	**Per Gallon**	9.7-10.3 lbs.
	Per Liter	1.16-1.23 kg
Solids*	**by Weight**	100%
	by Volume	100%
Volatile Organic Compounds*		<175 g/l (1.46 lbs./gal.)
Recommended Dry Film Thickness (DFT) per Coat		5.0-8.0 mils (125-200µ) 1st coat 5.0-8.0 mils (125-200µ) 2nd coat
Wet Film to Achieve DFT per coat		5.0-8.0 mils (150-250µ)
Practical Coverage at Recommended DFT (assumes 15% material loss)		200-320 sq. ft./gal. (4.9-7.9 m^2/l)
Mixing Ratio		2:1 base to activator by volume
Induction Period		None
Pot Life @ 70-80°F (21-27°C) & 50% Relative Humidity		30 minutes. Higher temperatures and larger quantities of activated material will significantly reduce pot life. Pour material onto floor immediately after mixing.
Dry Times at 70-80°F (21-27°C) and 50% Relative Humidity	**Recoat**	8-10 hours
	Foot Traffic	16-24 hours
	Vehicle Traffic	48-72 hours
Shelf Life		1 year
Flash Point		>200°F (93°C)
Safety Information		FLAMMABLE LIQUID AND VAPOR. HARMFUL IF INHALED. MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. CAUSES NOSE, THROAT, EYE AND SKIN IRRITATION. CONTAINS ALIPHATIC POLYISOCYANATE; METHYL AMYL KETONE AND METHYL ACETATE SOLVENTS. REFER TO MATERIAL SAFETY DATA SHEET (MSDS) FOR ADDITIONAL INFORMATION.

* Activated material.
Calculated values are shown and may vary slightly from the actual manufactured material.

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