RUST-OLEUM®

8000 SYSTEM
OVERKRETE® HD
100% SOLIDS EPOXY HEAVY-DUTY FLOOR TOPPING

DESCRIPTION AND USES

OverKrete® HD is a heavy-duty floor topping, designed for moderate chemical and severe mechanical abuse. OverKrete HD is a tough, abrasion resistant, virtually 100% solids copolymer resin system. When applied at a thickness of ¼", OverKrete HD will withstand steel wheeled traffic and severe mechanical abuse.

This CPS Type II product is typically installed by factory trained contractors. Be sure you are fully aware of all application procedures and have all the required equipment available prior to beginning the installation of this product.

FEATURES AND BENEFITS

- Suitable for food and beverage facilities: Essentially odorless and nonporous. OverKrete HD will not support bacterial growth, making it ideal for food and beverage applications.
- Freedom from porosity: OverKrete HD is nonporous and does not require a sealer coat to prevent chemical penetration to the concrete. OverKrete HD is a resin rich floor topping material. This feature allows the material to completely absorb and flow around the broadcasted aggregate, which eliminates 99% of all porosity. With this benefit and proper application, consistent physical properties will be achieved.
- Ease of application: OverKrete HD flooring material can be applied by a trowel or screed rake. It can be applied at full thickness in one pass over the floor; no primer or sealer is required. However, if easier surface cleaning is desired, glaze coats are recommended.
- Ability to bond to 10 day old concrete: OverKrete HD is typically applied to new concrete that has been cured for a minimum of 28 days at a minimum of 70°F. However, OverKrete HD may be applied to 10 day old concrete. For details and bonding limitations, consult the technical service department. The bond strength of the OverKrete HD to the concrete will exceed the tensile and shear strengths of the concrete itself.
- Adhesion to damp concrete: OverKrete HD can be applied to damp concrete (with no standing water). Its bond strength is lessened somewhat, but still exceeds the tensile and shear strengths of the concrete. This unique characteristic of since OverKrete HD eliminates a major uncertainty in applying flooring moisture conditions are difficult to control in the field.
- Non-wicking: OverKrete HD applied to concrete at ¼" will not crack or craze when subjected to impact from heavy loads. This characteristic is built into the resin system without the need for fiberglass cloth, eliminating the problem of chemicals wicking along the length of the fibers, causing deterioration and delamination.

FEATURES AND BENEFITS (cont.)

- Corrosion resistance: While the highest corrosion resistant Rust-Oleum Concrete Protection Systems products are OverKote HD and OverKote Plus HD, OverKrete HD is the economical choice where less severe chemical service is encountered. The Corrosion Resistance Chart in the Product Recommendation Guide is based on continuous exposure for unlimited service life at ambient temperatures. For chemicals not listed on the chart, consult your Rust-Oleum CPS representative.
- Rapid turn-around time: At application temperatures above 65°F, the OverKrete HD floor can support foot traffic in 10-14 hours, full physical use after 24-48 hours, and full chemical exposure in 4 days.
- For vertical (wall) application: Use OverKote HDV at ⅛" because the standard OverKrete HD product cannot be applied to vertical surfaces.
- The minimum application temperature for OverKrete HD is 65°F. Use OverKrete 45/65 for temperatures ranging from 45-65°F. It will apply and cure with the same ease and speed as the standard OverKrete HD. See the OverKrete 45/65 Technical Data Sheet for more information.

Note: Application temperatures refer to the air, material, aggregate, and the floor.

AVAILABLE COLORS

8000 System OverKrete HD is available in twelve standard colors. Custom colors are available upon request. Refer to the Rust-Oleum color chart. Product codes listed below are 20 sq.ft. Kits and 100 sq.ft. Kits. Standard colors are also available for 1000 sq.ft. Kits. Aggregate is sold separately for 100 and 1000 sq.ft. Kits.

20 sq.ft. Kit	100 sq.ft. Kit	Description
235903	235904	Natural
235912	235913	National Blue
235918	235919	Light Green
235924	235925	Safety Yellow
235930	235931	Tile Red
235936	235937	Black
235942	235943	Dunes Tan
235948	235949	Dark Gray
235954	235955	Light Gray
235960	235961	Navy Gray
235966	235967	White
241640	241642	Super Light Gray

PACKAGING

20 sq. ft. kit at ¼" thickness

Liquid (total A & B)	1.14 gallon (4.31 L)
Sand	40 lbs. (18.16 kg)

100 sq. ft. kit at ¼" thickness

Liquid (total A & B)	5.72 gallon (21.62 L)
Sand	200 lbs.: sold separately (90.80 kg)

1000 sq. ft. kit at ¼" thickness

Liquid (total A & B)	57.2 gallon (216.2 L)
Sand	2000 lbs.: sold separately (908.0 kg)

Sand quantities listed are exact.
Actual usage typically requires 10-15% more.

COMPANION PRODUCTS

BlokFil
OverDrive
OverKrete® S/OP
OverKrete® Xtra S/OP/V

PRODUCT APPLICATION

SURFACE PREPARATION

NEW CONCRETE: Laitance must be removed by muriatic acid etching or shot blasting. On concrete that has been cured with curing compounds or has had a hard steel trowelled finish, shot blasting, sandblasting or other methods of mechanical preparation will be required. New concrete should be cured for a minimum period of 10 days at 70°F prior to application.

EXISTING CONCRETE: Concrete must be clean and sound. Old coatings and toppings must be removed. Concrete must be clean and free of previous coatings, oil, wax, paint, and other contaminants. The surface of the concrete must be clean and properly profiled to enable the coating to achieve maximum bond. Water soluble contaminants can be hosed off with water. Some water insoluble materials are difficult to remove and may require sandblasting, scabbling, or other methods of removal.

For either new or existing concrete, when preparation is complete, the surface texture should be similar to 60-80 grit sandpaper.

Concrete must be visibly dry at time of application.

PRODUCT APPLICATION (cont.)

MIXING EQUIPMENT

20 sq. ft. kit: Drill motor and CPS 4 mixer.

100 sq. ft. kit: 2.5-3.0 cubic foot mortar mixer or 100 sq. ft batch mixer available through Rust-Oleum.

1000 sq. ft. kit: Use same as 100 sq. ft. kit except parts must be pre-measured to 100 sq. ft. batch sizes.

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

MIXING

Note: Before starting, ensure that the material, concrete surface, and the ambient air are all at 65-90°F. Mixing ratios are provided on container labels and page 4.

Part "A" preparation: Premix part "A" to disperse pigment to ensure consistent color. Roll drums or use a drum mixer to premix drummed material before use.

Add part "A" (resin) to the mixer. Mix only long enough to clean the mixer from the previous batch, about 30 seconds.

Add part "B" (hardener) to part "A". Mix for about 30 seconds.

Add part "C" (silica) to part "A" and "B". Mix until homogenous, about 1 to 2 minutes. Immediately pour on floor.

THINNING

No thinning required.

FILLING AND PATCHING

When filling or patching holes or voids in the concrete surface prior to the actual application, use the same procedures as above with the following exceptions: add part "C" (silica) directly to the mix before pouring. TurboKrete, OverDrive, or BlokFil may also be used.

APPLICATION EQUIPMENT

Trowel or screed rake

APPLICATION

Use a trowel or screed rake to spread material over required area. Spike roll or trowel to remove rake tracks. Within 5 to 15 minutes, broadcast part "D" (silica) until flooring is saturated.

More detailed information can be found in the Application Instructions (Form #AI9800), which should be consulted prior to beginning.

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 will be necessary.

SHELF LIFE

Unopened, properly stored containers: 2 years

SAFETY

OverKrete HD contains amine curing agents. Avoid skin contact by using protective clothing and gloves. In case of eye contact or ingestion, contact a physician immediately.

OverKrete HD is intended for industrial use only. This product should not be used by untrained or non-professional personnel.

MATERIAL SAFETY DATA SHEETS

The Material Safety Data Sheets can be found at www.rustoleum.com. It is strongly recommended that the Material Safety Data Sheets be read by all persons handling OverKrete HD.

PERFORMANCE CHARACTERISTICS

COMPRESSIVE STRENGTH

METHOD: ASTM C579

TYPICAL VALUE: 11,800 psi

FLEXURAL STRENGTH

METHOD: ASTM C580

TYPICAL VALUE: 4,500 psi

MODULUS OF ELASTICITY

METHOD: ASTM C580

TYPICAL VALUE: 13.2×10^{5} psi

TENSILE STRENGTH

METHOD: ASTM C307

TYPICAL VALUE: 2,200 psi

BOND STRENGTH TO CONCRETE

METHOD: ASTM D4541

TYPICAL VALUE: Exceeds tensile strength of concrete (concrete fails first)

PERFORMANCE CHARACTERISTICS (cont.)

TABER ABRASION

METHOD: ASTM 4060, CS 17

TYPICAL VALUE: Loss/1000 cycles = 22 mg.

WATER ABSORPTION

METHOD: ASTM C413

TYPICAL VALUE: 0.1% maximum

LINEAR SHRINKAGE

METHOD: ASTM C531

TYPICAL VALUE: 0.24% maximum

LINEAR COEFFICIENT OF THERMAL EXPANSION

METHOD: ASTM C531

TYPICAL VALUE: 3.94×10^{-5} in./in./°F

FLAMMABILITY

METHOD: ASTM D635

TYPICAL VALUE: 1.2 cm./min.

IMPACT RESISTANCE

METHOD: Mil-D-3134J

TYPICAL VALUE: Satisfactory per 3.15

COEFFICIENT OF FRICTION

METHOD: ASTM D2047

TYPICAL VALUE: 0.77 unglazed

FILM HARDNESS, SHORE D

METHOD: ASTM D2240

TYPICAL VALUE: 88

POROSITY WITH NO SEALER COAT

METHOD: NACE Stand TM0174

TYPICAL VALUE: 0.0

TECHNICAL DATA

8000 SYSTEM OVERKRETE® HD 100% SOLIDS EPOXY HEAVY-DUTY TOPPING

PHYSICAL PROPERTIES

		OVERKRETE HD
Resin Type		Polyamine Converted Epoxy
Pigment Type		Varies depending on color
Solvents		Furfuryl Alcohol, Xylene
Weight*	**Per Gallon**	9.15-9.25 lbs.
	Per Liter	1.09-1.11 kg
Solids*	**By Weight**	100%
	By Volume	100%
Volatile Organic Compounds*		<135 g/l (1.12 lbs./gal.)
Recommended Dry Film Thickness (DFT) Per Coat		250 mils (¼" thickness)
Wet Film to Achieve DFT		250 mils
Practical Coverage at Recommended DFT		20 square feet per 1.14 gallons 100 square feet per 5.72 gallons
Mixing Ratio		2.3:1 base to activator by volume
Induction Period		None
Pot Life @ 70-80°F (21-27°C) & 50% Relative Humidity		20 minutes
Dry Times at 70-80°F (21-27ºC) and 50% Relative Humidity	**Foot Traffic**	10-14 hours
	Vehicle Traffic	24-48 hours
	Full Cure	4-5 days
Shelf Life		2 years
Flash Point		>185°F (85°C)
Safety Information		**CAUSES NOSE, THROAT, EYE AND SKIN IRRITATION. CAUSES EYE AND SKIN BURNS. HARMFUL IF SWALLOWED. MAY CAUSE ASTHMA, SKIN SENSITIZATION OR OTHER ALLERGIC RESPONSES. FOR INDUSTRIAL OR COMMERCIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. SEE THE PRODUCT MATERIAL SAFETY DATA SHEET (MSDS) AND LABEL WARNINGS FOR ADDITIONAL SAFETY INFORMATION.**

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

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Form: GDH-266
Rev.: 032714