SEAL KRETE® HIGH PERFORMANCE EPOXY-SHELL™ WB 50

DESCRIPTION AND USES

SEAL-KRETE® Epoxy-Shell™ WB 50 is a nationwide compliant industrial strength water-based two-part high performance epoxy coating which utilizes polyamine technology.

It provides excellent adhesion, film hardness, chemical, and abrasion resistance. Epoxy-Shell WB 50 can be applied directly to concrete without the need of a primer. The coating is widely used to provide a high gloss finish to concrete floors, food & beverage and pharmaceutical facilities. It is recommended on floors and walls in equipment and clean rooms, as well as refineries, power industry, and wastewater facilities.

PRODUCT FEATURES AND BENEFITS

- Nationwide VOC Compliant, SCAQMD Approved
- High Gloss
- Rapid Return to Service in 24 hours
- Chemical Resistant (for more information, see chart on page 2)
- Excellent hot tire pick-up resistance
- Highly breathable, reduces blistering and peeling
- Meets USDA and FDA requirements for incidental food contact

PRODUCTS

DESCRIPTION (1 Gallon Kit)	SKU
Slate Gray	502201
Armor Gray	502101
Sand	502401
Black Knight	505001
Brick Stone	505501
Safety Yellow	505701
Safety Blue	505801

PRODUCT APPLICATION

READ ALL INSTRUCTIONS CAREFULLY BEFORE STARTING PROJECT

SURFACE PREPARATION

NEW CONCRETE: New concrete should be allowed to cure for a minimum of 28 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 lbs. per 1000 sq. ft. over a 24 hour period as measured by calcium chloride test method ASTM F-1869.

PRODUCT APPLICATION (cont.)

SURFACE PREPARATION (cont.)

NEW CONCRETE: (cont.) 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. If patching is required, use SEAL-KRETE Fast Cure High Strength Concrete Repair.

PREVIOUSLY COATED: Previously coated surfaces must be sound and in good condition. Smooth, hard, or glossy finishes should be scarified by sanding or sweep blasting to create a surface profile. The Epoxy-Shell WB 50 is compatible with most coatings, but a test patch is suggested. Concrete must be visibly dry at time of application.

MIXING EQUIPMENT

Low speed drill and spiral mixing wand.

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 50-95°F. Mixing ratio is 3 parts A to 1 part B.

Pre-mix both A and B sides prior to combining.

Add part “A” to the mixing container.

Add part “B” to the mixing container and mix for 60-90 seconds.

DO NOT THIN

APPLICATION

Temperature of the air, substrate and material should be between 50-95°F and relative humidity should not be above 80%. For priming, only one coat is needed. For all other applications, two coats are recommended with a minimum of 4 hours (2 hours with spike shoes) and a maximum of 24 hours dry time between coats.

Apply using a 3/8" short nap roller for horizontal and vertical surfaces. Apply light coats no more than 24 hours between coats. For improved slip resistance, add SEAL-KRETE Clear-Grip, following the instructions on the Clear-Grip package. Mix only the amount of material that can be applied during the pot life (approximately 45 minutes, depending on air/surface temperatures). Do not aerate the mix. Apply immediately.

CLEAN UP

Clean tools and application equipment immediately after use with soap and warm water. Clean spills or drips while still wet with soap and warm water. Dried product will require mechanical abrasion for removal.

Form: ARJ-2051
Rev.: 053122

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PRODUCT APPLICATION (cont.)

KEEP FROM FREEZING

Store in a cool, well ventilated area above freezing.

DISPOSAL

Collect with absorbent material. Dispose of in accordance with current local, state and federal regulations.

LIMITATIONS

This product is not designed for immersion or any use where moisture can reach the underside of the coating. Do not apply to floors that have been treated with curing compounds (unless completely removed) or substrates that are less than 30 days old. Do not use on vinyl, asphalt, glazed tile, paving brick, quarry tile, Mexican tile or similar materials. Do not apply if surface temperature is below 50°F.

CHEMICAL RESISTANCE (ASTM D-1308)

CHEMICAL	RESULT
Animal Urine	Y
Antifreeze (Prestone®)	Y
Bleach®	Y
Brake Fluid	Y
Calcium Chloride	Y
Cooking Oil (Peanut, Olive, Canola)	Y
De-Icing Salts	Y
Detergents	Y
Gasoline	Y
Hydrochloric Acid 10%	Y
Motor Oil	Y
Mustard (Raye's®)	Y*
Orange Juse	Y
Phosphoric Acid 10%	Y
Sodium Hydroxide 50% (Caustic Soda)	Y
Sulfuric Acid 10%	Y
Trisodium Phosphate (TSP)	Y
Water	Y
Windshield Wiper Fluid	Y
Xylene	Y

Chemical Resistance: Chart Key

Y= Resistant
N= Not recommended
*Will stain unless immediately removed

PERFORMANCE CHARACTERISTICS

BOND STRENGTH TO CONCRETE

METHOD: ASTM D4541
RESULT: 600 psi

KONIG HARDNESS

METHOD: ASTM D4366
RESULT: 105

ABRASION RESISTANCE CS-17

METHOD: ASTM D4060
RESULT: 7.2 mg loss

WATER VAPOR TRANSMISSION

METHOD: ASTM E-96
RESULT: .53 g/hr† m^2

†EPA Method 24, Floor Category

	TECHNICAL DATA	SKHP-24

SEAL KRETE® HIGH PERFORMANCE EPOXY-SHELL™ WB 50

PHYSICAL PROPERTIES

		EPOXY-SHELL WB 50
Resin Type		Polyamine Epoxy
Solvents		Glycol Ether
Weight*	**Per Gallon**	10.3-10.7 lbs.
	Per Liter	1.23-1.28 kg
Solids*	**By Weight**	63%
	By Volume	53%
Volatile Organic Compounds*		<50 g/l
Recommended Dry Film Thickness (DFT) Per Coat		2-4 mils
Practical Coverage (assume 15% material loss)		250-400 sq. ft./gal. Coverage rates will vary based on application method.
Mixing Ratio		3:1 by volume (part A : part B)
Pot Life @ 70-80°F (21-27°C) and 50% Relative Humidity		Up to 45 minutes
Re-Coat Window (Min./Max)		2-4 hours/24 hours
Dry Times at 70-80°F (21-27ºC) and 50% Relative Humidity	**Foot Traffic**	18 hours
	Vehicle Traffic	48 hours
	Full Cure**	7 days
Shelf Life		5 years
Safety Information		For additional information, see SDS
Other Information		PROTECT FROM FREEZING

*Activated material
**Coating achieves its full physical and chemical resistant properties.
Calculated values are shown and may vary from the actual manufactured material.

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Rev.: 053122