



Dura-Shell™ WB

PRODUCT DESCRIPTION

SEAL-KRETE® Dura-Shell™ WB is a premium clear water-based two-part high performance urethane coating which utilizes aliphatic urethane polymer technology. It provides excellent film hardness, chemical, abrasion and UV resistance and with less than 50 grams/liter VOC, it is approved for use in South Coast Air Quality Management District (SCAQMD). Dura-Shell can be applied directly to many surfaces without the need of a primer, i.e., concrete, wood, aluminum and galvanized metal. The coating is widely used to provide a high gloss or matte finish to concrete floors, food & beverage and pharmaceutical facilities. It is recommended on floors and walls in equipment and clean rooms, as well as amusement parks, refineries, power industry, storage tank exteriors and wastewater facilities.

FEATURES AND BENEFITS:

- High gloss or matte finish
- UV resistant, non-yellowing
- Great scratch & abrasion resistance
- Excellent chemical resistance; recommended as anti-graffiti topcoat
- Recommended as clear topcoat when broadcasting decorative flakes
- Easy to use 50 VOC low odor formula
- Excellent hot tire pick-up resistance
- Recommended for vertical or horizontal applications
- Available in Clear 1-Gallon Kit, Item #226001–Gloss or #224001–Matte

TYPICAL USES:

- Food processing areas
- Bottling areas
- Sanitize/wash areas
- Cook/chill areas
- Refineries, chemical processing facilities
- Storage tank/pipeline exteriors
- Amusement parks
- Clean rooms
- Kitchens
- Pharmaceutical plants
- Prison floors
- Warehouse floors

Important: Read all directions thoroughly. Recommended: Wear gloves, safety glasses and protective clothing or apron.

SURFACE PREP*

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, coatings, 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 hours period as measured by calcium chloride test method ASTM F-1869. The preferred method of surface preparation is abrasive blasting or scarification using diamond heads to achieve a final 80–120 grit finish, reference Profile SP-2 ICRI Technical Guideline No. 03732. If a chemical etch is preferred, use SEAL-KRETE Clean-N-Etch and follow all label instructions.

WOOD: Sand new wood to remove any surface contaminant and to lower grain. Previously finished wood should be sanded to provide good adhesion. Test patches are recommended.

ANTI-GRAFFITI SYSTEM: Follow appropriate surface preparation noted above. Apply two coats of Dura-Shell Clear using a short nap premium 1/4–3/8" lint free roller. Graffiti "spray paint" can be removed by scrubbing with a rag saturated with xylene.

ALUMINUM: Remove all oil, grease or soap film with an alkaline cleaner such as TSP (tri-sodium phosphate).

GALVANIZED METAL: Remove all oil, grease or soap film with an alkaline cleaner such as TSP (tri-sodium phosphate).

APPLICATION

APPLICATION CONDITIONS: Temperature of the air, substrate and material should be between 50°F and 95°F. Relative humidity should not be above 80%. Two coats are recommended with a minimum of 6 hours and a maximum of 24 hours dry time between coats.

MIXING INSTRUCTIONS: Mix Part "A" by using a low speed drill with mixing attachment for 2 minutes. Add Part "B". Mix an additional 2 minutes. Mix only the amount of material that can be applied during the pot life (approximately 1 hour, depending on air/surface temperatures). Do not aerate the mix. Apply immediately.

APPLICATION: Apply using a 3/8" short nap roller for horizontal surfaces; 1" nap for vertical surfaces. Apply light coats no more than 24 hours between coats.

Refer to Application Guide or visit hp.seal-krete.com for detailed application instructions.

CLEAN-UP, STORAGE AND DISPOSAL

CLEAN-UP: Clean tools and application equipment immediately after use with water first and wipe; then use an active solvent like xylene. Clean spills and drips while still wet with xylene. Dispose of container and contents in accordance with local laws and regulations.

HANDLING: Do not breathe mixed product vapors or dusts. Use adequate ventilation to keep airborne isocyanate levels below the exposure limits. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must not be exposed to vapors or dusts.

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.

MAINTENANCE AND CARE

SEAL-KRETE Industrial Flooring Systems are monolithic, making them easier to clean because dirt and contaminants remain on the surface. For maintenance / care recommendations, refer to application guide or visit hp.seal-krete.com.

CAUTION: KEEP OUT OF REACH OF CHILDREN. Avoid contact with skin. If splashed in the eyes remove contact lenses if worn. Flush eyes with clean water. If irritation occurs get medical attention. If swallowed, DO NOT induce vomiting. Take immediately to hospital or physician. **For more information refer to Material Safety Data Sheet.**

**Sanding or removing paint containing lead may be hazardous. For information contact the National Lead Information Center at 1-800-424-LEAD or www.epa.gov/lead.*

| MATERIAL PROPERTIES AT 75°F | MATTE | GLOSS |
|---|----------------------|----------------------|
| Mixed VOC Content | < 50 g/L* | < 50 g/L* |
| Mix Ratio (A:B; by volume) | 3:1 | 3:1 |
| Tack Free Time | 6 hours | 6 hours |
| Recoat Time (min/max) | 6 hrs / 24 hrs | 6 hrs / 24 hrs |
| Light Foot Traffic | 24 hours | 24 hours |
| Vehicular Traffic | 5 Days | 5 Days |
| ASTM E-96 – Water Vapor Transmission | 1.39 perms | 1.39 perms |
| ASTM C-722 – Monolithic Surfacing | Pass | Pass |
| ASTM D-4366 – Konig Hardness | 110 | 111 |
| ASTM D-2794 – Impact Resistance | Pass; > 160 inch/lb. | Pass; > 160 inch/lb. |
| ASTM D-4060 – Abrasion Resistance (CS-17) | 2.5 mg loss | 4 mg loss |
| ASTM D-638 – Tensile Strength | 2700–2900 psi | 2715–2912 psi |
| ASTM D-4541 – Adhesion Strength | 460 psi | 480 psi |

*EPA Method 24 – Floor Category

| CHEMICAL RESISTANCE | | | |
|-------------------------------------|---|-------------------------------------|----|
| Acetone | Y | Motor Oil | Y |
| Animal Urine (fox) | Y | Mustard (Raye's®) | Y* |
| Antifreeze (Prestone®) | Y | Natural Grain Spirits 190 Proof | Y |
| Bleach (Clorox®) | Y | Orange Juice | Y |
| Brake Fluid | N | Phosphoric Acid 10% | Y |
| Calcium Chloride | Y | Skydrol 5 | Y |
| Cooking Oil (Peanut, Olive, Canola) | Y | Sodium Hydroxide 50% (Caustic Soda) | Y |
| De-Icing Salts | Y | Sulfuric Acid 10% | Y |
| Detergents | Y | Sulfuric Acid 37% (Battery Acid) | Y |
| Gasoline | Y | Toluene | Y |
| Hydraulic Fluids (Tellus 46) | Y | Trisodium Phosphate (TSP) | Y |
| Hydrochloric Acid 10% | Y | Water | Y |
| Hydrochloric Acid 37% | Y | Windshield Wiper Fluid | Y |
| Isopropyl Alcohol | Y | Xylene | Y |
| MEK | Y | | |

Key: Y = RESISTANT N = NOT RECOMMENDED

*Will stain unless immediately removed

APPLICATION AND COVERAGE GUIDE

| Steps | Coverage | | | | |
|--------------|--------------|----------------|--------------|------------|-----------|
| | Roller Size | | Sq. Ft./ Gal | Mils | |
| | Vertical | Horizontal | | Wet | Dry |
| Clear Coat 1 | 1" woven nap | 3/8" woven nap | 250–400 | 4.0 -- 6.0 | 2.4 - 3.6 |
| Clear Coat 2 | 1" woven nap | 3/8" woven nap | 250–400 | 4.0 -- 6.0 | 2.4 - 3.6 |

Coverage rates are approximate and for estimating purposes only. Surface temperature, porosity, texture and thickness will determine actual material requirements.

WARRANTY: Seller makes no warranty, either expressed or implied, concerning this product, its quality, performance, merchantability, or fitness for a particular purpose other than expressly designated warranty of the product label. Buyer assumes all risk of use and handling of this material.

TECHNICAL SUPPORT: For more information on surface prep or application guidelines, or to obtain a Material Safety Data Sheet, call 1-800-323-7357, M-F (8:00 am–5:00 pm EST) or visit our website at hp.seal-krete.com.

Country of Origin: U.S.A.