TECHNICAL DATA SHEET



PRODUCT DESCRIPTION

SEAL-KRETE® Flex-Coat is a two-component, 98% solids, VOC Compliant Polyurea that was developed as a primer/basecoat for a variety of coating systems. This coating provides exceptional adhesion to a large number of substrates and performs well in a wide range of temperatures and climate conditions. Extended working time makes it a great choice for both residential and commercial applications.

FEATURES AND BENEFITS:

· Displays moderate cure times with excellent adhesion characteristics to a variety of substrates / coatings.

 Can be spray or roll applied at temperatures ranging from 0-110°F and in high humidity.

· Long "open times" allow for self leveling capabilities and increased hiding power as well as consistent broadcasts of decorative aggregate.

• Emits virtually no odors and can be applied indoors with minimal disturbance contributed to high VOC levels that are found in most epoxies and polyurethanes.

Can be applied to vertical surfaces as a primer/basecoat or stand-alone coating. •

Easy to mix 1:2 ratio. •

Available in 3 gallon kits, 5 gallon pails and 55 gallon drums.

324243	SK 1G POLYSHELL FLEXCOAT A-SIDE CLEAR
324246	SK HP PLYSHL FLXCT 2G B-SIDE CLEAR
324247	SK HP PLYSHL FLXCT 2G B-SIDE ARMR GREY
324248	SK HP PLYSHL FLXCT 2G B-SIDE SAHARADSRT
324249	SK HP PLYSHL FLXCT 2G B-SIDE CUSTM COLOR

APPROVED TOPCOATS:

Poly-Shell 7000 -- Epoxy-Shell 1000

RECOMMENDED USES:

Ideally suited for commercial, industrial and institutional applications.

- Aircraft hangars
- Detention facilities
- Manufacturing plants
- Warehouses Metal finishing and power generation facilities

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

Hospitals

Chemical and waste treatment plants

SURFACE PREP*

Seal-Krete recommends testing the moisture condition of the substrate. Two commonly used tests to determine water vapor condition of concrete floors are the anhydrous calcium chloride moisture vapor emission rate test (ASTM F1869) and the in-situ relative humidity probe test (RH probe test, ASTM F2170).

All concrete surfaces that are going to be coated with Seal-Krete Flex-Coat must be mechanically prepared to an ICRI Concrete Surface Profile (CSP) of 2-3. The preferred method to achieve this is grinding or shot blasting. Acid etching is not permitted. Upon completion of shot blasting or grinding, the concrete slab must be vacuumed free of all dust, dirt, and debris prior to Seal-Krete Flex-Coat installation.

APPLICATION

MIXING INSTRUCTIONS: Material should be pre-conditioned to a minimum of 50°F (10°C) prior to use. Thoroughly mix both the A and B side components using separate paddle mixers and a drill for a minimum of 2 minutes to place the solids content evenly in suspension. This should be done prior to every use before combining the two components. Following the mix ratio of 1A:2B, combine the two components in a calibrated mixing container and blend together with a paddle style mixer and drill for at least 1 minute. Seal-Krete recommends a maximum batch size of 1-2 gallons, however larger quantities can be mixed depending on the scope of the project. Never mix more material than can be placed and finished in 20-25 minutes.

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

Flex-Coat[™]

Product is sold CLEAR or Pre-Tinted. It can be custom colored through the use of tint packs which are sold separately. Contact SEAL-KRETE for available colors and mixing ratios.

APPLICATION INSTRUCTIONS: Apply Seal-Krete FLex-Coat at substrate and ambient temperatures between 0°F and 120°F. Seal-Krete Flex-Coat is applied using a notched squeegee or 3/8" in nap epoxy rated roller. Spread the material to the appropriate coverage rate using a notched squeegee. Immediately back roll with a 3/8" in epoxy rated roller preferable at a right angle to the direction of the squeegee application, evenly distributing the product across the entire area.

Clean mixing and application equipment immediately after use. Use an active solvent like Xylene or Acetone.

DRXINGETIME:

2-4 Hours

Hard dry-2-4 hours Relativity Humidity-72°F-54% Mar free-4-6 hours

Recoat - 12 hours Max. Foot Traffic - 8-12 Hours

CLEAN-UP, STORAGE AND DISPOSAL

CLEAN-UP: Clean tools and application equipment immediately after use with an active solvent like xylene (in SCAQMD use acetone only). Clean spills or drips while still wet with solvent. Dried SEAL-KRETE High Performance Flex-Coat will require mechanical abrasion for removal.

HANDLING: Irritating to eyes, skin and mucus membranes. Do not breathe mixed product vapors or dusts. Provide adequate ventilation. May cause sensitization by prolonged skin contact and/or inhalation.

STORAGE: Store and transport in unopened containers in a clean, dry area at stable temperatures approximating 50 to 90°F.

SHELF LIFE: Part A: 1 year - Part B: 1 year

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.

THINNER

Flex-Coat can be thinned using Acetone or MEK at rates up to but not exceeding 20% by total volume mixed. This will affect the application technique, contact Seal-Krete for information.

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 eves remove contact lenses if worn. Flush eves 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.



Flex-Coat[™]

MATERIAL PROPERTIES AT 77°F	CHEMICAL RESISTANCE ASTM D-1308			
Tensile Strength ASTM D412 3600 Elongation ASTM D412 198 Tear Strength (PLI) ASTM 2240 350 Modulus of Elasticity 47,900 psi Flexibility, 1/8" Mandrel ASTM D1737 Pass Tabor Abrasion mg Ioss ASTM D4060 31 Impact Resistance ASTM D2794 250 in. lbs. Direct Impact Resistance ASTM D2794 285 in. lbs. Indirect Radiant Flux (CRF) ASTM E 648 1.14 W/cm ² Adhesion Results ASTM D-4541 Elcometer Concrete-no primer concrete failure >500psi Concrete-primer concrete failure >550psi Steel - PR-511 primer delamination >1800psi Wood-no primer wood failure/shear >400psi *EPA Method 24 – Floor Category Certifications VOC Compliant in all 50 states, Canada, Australia and Various Countries in Europe (National Standards – IMC) USDA and FDA certified food safe for incidental food contact. Radiant Flux Tested and Certified.	Chemical Result (25°C) Acetic Acid 100% Acetone Ammonium Hydroxide 50% Benzene Brine saturated H20 Chlorinated H20 Clorox(10%) H20 Diesel fuel Gasoline/5% MTBE Gasoline/5% MtBE Hydrofluoric Acid 10% Chemical Resistance: Chart Ke R=recommended/little or no w RC=recommended/little or no w RC=recommended/little or no w	C C RC RC RC RC RC RC RC RC RC RC RC RC	NaCl/H2O 10% Nitric Acid 20% Phosphoric Acid 10% Phosphoric Acid 50% Potassium Hydroxide 10% Potassium Hydroxide 20% Propylene Carbonate Skydrol Sodium Hydroxide 25% Sodium Hydroxide 50% Sodium Hydroxide 50% Sodium Hychlorite 10% Sodium Bicarbonate Stearic Acid Sugar/H2O Sulfuric Acid 10% Sulfuric Acid 10% Sulfuric Acid >50% Toluene 1, 1,1-Trichlorethane Trisodium Phosphate Vinegar/H2O 5% H2O H2O 14 days at 82° C Xylene	RC NR R R, Dis RC C R R. Dis R RC R R R R R R R R R R R R R R R R R
	Dis=discolorative			

COVERAGE GUIDE

50-200 sq.ft./gal Recommended -8 mil wft - 32 mil wft** 7.84 dft - 31.36 dft **Contact Tech Services for specs outside this range Coverage rate can vary depending on the texture and porosity of the concrete

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

WARRANTY: Conditional warranty of 1 -2 years available. Contact SEAL-KRETE Technical Service. SEAL-KRETE warrants this product will be free of defects at time of use or within products shelf life.

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.