TECHNICAL DATA SHEET

Surface-Shell™ HP & HP/Q

PRODUCT DESCRIPTION

SEAL-KRETE Surface-Shell HP and HP/Q are polyurethane modified concrete overlays based on a 3-component polyurethane-concrete system with optional broadcast aggregate, lock and finish coats. Both systems are installed at a finished thickness of 1/4–3/8" (6.35 mm–9.525 mm). The thickness is determined by the severity of expected traffic and by the service and cleaning temperatures. SEAL-KRETE Surface-Shell HP/Q has a textured surface from the inclusion of colored quartz aggregate. SEAL-KRETE Surface-Shell floors are extremely hard and have physical properties that exceed those of typical concrete.

Yield

36–38 sq ft (3.34–3.53 sq meters) per HP kit

Packaging

3-Part Kit Item #570000
- Part A: 1 Gallon (3.78 L)
- Part B: 1 Gallon (3.78 L)
- Part C: 49.9 lb (22.63 kg)
- Part D: Colorant 1 lb (453 g)
  - Black #570001
  - Blue #570002
  - Charcoal #570003*
  - Brown #570004
  - Cream # 570005*
  - Gray #570006*
  - Green #570007
  - Red #570008*
  - *Stock Colors
- Part E: Cold Temp Additive .94 oz
- Part F: Cold Temp Additive .25 lb

Approved Top Coats

Poly-Shell 7000 High Gloss
- Clear 2-Gallon Kit, Item #243002
- Clear 10-Gallon Kit, Item #243002
- 8 – Color Packs to match Surface-Shell HP (32 oz each)
  - Black #573001
  - Blue #573002
  - Charcoal #573003
  - Brown #573004
  - Cream #573005
  - Gray #573006
  - Green #573007
  - Red #573008

Epoxy-Shell 1000 SL
- Clear 3-Gallon Kit Item #231003
- Clear 15-Gallon Kit Item #231005
- 8 - Colored Kits to match Surface-Shell HP (1.5-Gallon)
  - Black #572001
  - Blue #572002
  - Charcoal #572003
  - Brown #572004
  - Cream #572005
  - Gray #572006
  - Green #572007
  - Red #572008

Shelf Life (with proper storage)

Parts A & C: 6 months
Part B: 1 year
Part D: 5 years
Parts E & F: 24 months

STORAGE

Store and transport in unopened containers in a clean, dry area at stable temperatures approximating 60° to 73°F (15° to 22.5°C).

APPLICATION

- Where severe conditions exist – high impact pressure, thermal shock, and chemical exposure
- Where appearance is important
- On badly damaged surfaces
- Wet conditions requiring a heavily textured slip-resistant surface
- Where steam or hot water is required for cleaning
- Meat, poultry, and dairy plants
- Bottling facilities
- Pharmaceutical plants
- Commercial kitchens and restaurants
- Freezers and refrigerated storage areas
- Food packing and canning plants

Location

- Interior applications unless top coated with pigmented SEAL-KRETE Poly-Shell 7000

Substrate

- Over new and existing concrete surfaces and toppings; when applying over other substrates, contact SEAL-KRETE Technical Service

FEATURES

- Even mix ratio
- Capability of making small mixes without hurting performance
- Slip-resistant finish
- Integral color
- Thermal stability
- Low VOC
- Self-priming
- Unaffected by freeze-thaw cycles
- Excellent impact and abrasion resistance
- Extremely high bond strength
- Chemical resistant
- Can be applied to 7 day old concrete
- Wide temperature service range from 50° to 210°F (45° to 100°C)
- Cold Temperature additive to improve flow and leveling and accelerate cure time
- Coefficient of thermal expansion similar to concrete

BENEFITS

- Improved safety, especially in wet areas
- Resistant to continuous hot water cleaning
- 48 hours installation time
- Low odor; VOC compliant
- Speeds application time
- Remains flexible at low temps
- Handles heavy traffic
- Tenacious adhesion
- Tolerates organic and inorganic acids, alkalis and salts
- Accelerates work schedules
- Exceeds the performance of typical epoxy overlays
- Meets ADA recommendations
- Option to accelerate cure and improve flow and leveling when the temperature is below 60°F

Surface-Shell™ HP & HP/Q

SEAL KRETE HIGH PERFORMANCE INDUSTRIAL COATING SYSTEMS

TECHNICAL DATA COMPOSITION

SEAL-KRETE Surface-Shell HP and HP/Q are based on 3-component polyurethane concrete systems incorporating a broadcast lock coat.

COMPLIANCES

- USDA accepted for use in federally inspected meat and poultry plants in the USA.
- Meets ADA recommendations for a slip-resistant surface

SEAL-KRETE Surface-Shell HP Polyurethane Modified Concrete Overlay Broadcast Floor-Resurfacing System

	Results	Test Methods
Compressive Strength @ 30 days, psi (kPa)	7,400 (51,023)	ASTM C 579
Tensile Strength, psi (kPa)	825 (5,688)	ASTM C 307
Density	16.66 lb/gal (7.56 kg/gal)	
Resistance to fungi growth	Passes, rating of one	ASTM G 21
Compressive modulus, psi (kPa)	1,125 (7,756)	ASTM C 469
Flexural strength, psi (kPa)	2,005.7 (13,829)	ASTM C 580
Modulus of elasticity, psi (kPa)	1,105 (7,619)	ASTM C 469
Water absorption, %	<0.1	ASTM C 413
Abrasion resistance, gloss; CS-17 wheel, 1000 cycles	0.06mg	ASTM D 4060
Adhesion, psi (kPa)	600 100% concrete failure (4137)	ASTM D 4541
Coefficient of friction, wet and dry	Passes ADA recommendations	ASTM D 2047

ASTM D 1308 Chemical Resistance

SEAL-KRETE Surface-Shell HP and HP/Q will resist exposure for up to 7 days at 72°F (22°C) for the following chemicals.

- Resistant to 35% hydrochloric, 50% phosphoric and up to 30% sulfuric acid
- Potassium hydroxide up to a 50% concentration
- Acetic, formic, citric and uric acid up to 30% solutions
- Fats, oils, and sugars
- Mineral oils, diesel fuel, kerosene, and gasoline
- IPA, xylene, toluene, MEK

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.

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