Blackhawk 5710

SELECTION & SPECIFICATION DATA

Type	Asphalt Modified Polyurethane
Description	Blackhawk 5710 is a liquid applied monolithic lining system with exceptional chemical and abrasion resistant elastomeric properties. As a cold applied chemistry, it is well suited as an alternate where hot applied membrane systems are not practical.
Uses	Typical applications include primary and secondary containment, wastewater containment, spillway fountains, decorative ponds and various other waterproofing and corrosion protection situations. Due to its elastomeric properties, it may help to prevent the transmission of substrate cracks through the lining.
Features	• Low VOC • Crack bridging • UV resistant • Good adhesion to asphalt
Color	Black
Finish	Gloss
Primer	Self-priming on most concrete, and metal surfaces. Novocoat SC1100 Concrete Primer may be used to reduce the risk of outgas blisters on concrete.
Topcoats	Aggregate broadcast or coatings
Dry Film Thickness (DFT)	40 – 125 mils per coat (depending on slope)
Solids Content	80 – 90% by weight
Theoretical Coverage Rate	40 – 50 square feet per gallon at 30 mils
VOC Value(s)	<200 g/L
Maximum Dry Temperature Resistance	225°F (107°C) Excursions to 250°F (121°C)
Limitations	Will lose gloss, discolor, and chalk in sunlight
Cure Schedule	30 minutes at 90°F (32°C) 40 minutes at 75°F (24°C) 50 minutes at 60°F (16°C)

SUBSTRATES & SURFACE PREPARATION

All	All surfaces must be clean and free from debris and loose scale material or anything that may interfere with adhesion or act as a bond breaker with the desired substrate.
Concrete and Concrete Masonry Unit (CMU)	Must be cured minimum 7 days at 75°F (24°C) and 50% relative humidity or equivalent. Prepare surfaces to expose aggregate. Voids in concrete may require surfacing. Mortar joints should be cured a minimum of 15 days.
Steel	Immersion: SSPC-SP10 Non-immersion: SSPC-SP6 1.5 – 3.0 mils (38-75 microns) SSPC-SP2 or SP3 are suitable cleaning methods for mild environments.
Previously Painted Surfaces	Consult with ErgonArmor Technical Service Department

MIXING & THINNING

Mixing	DO NOT THIN. DO NOT MIX BY HAND. Use a an electric or air driven 1/2 in drill with an 8 in square metal mixing blade. Premix Part A for 1 minute to reduce viscosity. DO NOT DRAW AIR INTO THE MIX. Add Part B hardener slowly over a period of at least 45 seconds. Move the mix blade in a clockwise and counter-clockwise motion for a full 3 minutes. DO NOT ALLOW MOISTURE TO CONTAMINATE THE MIXING PROCESS. Ensure that the entire contents of the packaged Part B is mixed into the entire contents of the packaged Part A.
Thinning	Do not thin
Ratio	45:1 ratio (A to B) by weight
Pot Life	30 minutes at 90°F (32°C) 40 minutes at 75°F (24°C) 50 minutes at 60°F (16°C) Not recommended below 60°F (16°C)
Recoat Window	Recoat window is typically 1 – 4 hours. Cured material over 4 hours may need to be prepared as stated in the repair and maintenance section below.

REPAIR

Blackhawk 5710 elastomeric compound is a tough abrasion-resistant product, and no maintenance should be needed. If mechanical damage should occur, it can be easily repaired by maintenance personnel. Edges of the old compound should be roughed up with a wire bristle brush to expose a fresh surface. That surface should then be wiped with an aromatic or mineral spirit solvent and allowed to dry. Subsequent material can be applied over the prepared area.

APPLICATION EQUIPMENT GUIDELINES

Trowel Application	Typically applied by gloved hand or trowel.

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CLEANUP & SAFETY

Cleanup
Cured material cannot be recovered. Flush and clean all equipment after use with mineral spirits or equivalent solvent. Cured material can be soaked in solvent to aid in clean-up.

Safety
Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and safety data sheets before using.

Ventilation
Thorough air circulation must be used during and after application until the product is cured.

PACKAGING, HANDLING & STORAGE

Shelf Life
2 years in unopened original container

Storage Temperature & Humidity
40°F – 110°F (4°C – 43°C)
0 – 100% relative humidity

Package Sizes & Shipping Weights
Tube sets: case of six
4 gallon kit:
Part A: 4-gallons (34 lbs) in a 5-gallon pail
Part B: 341 grams in a quart can.

42 pails are stacked on a 48 in x 45 in pallet with a gross shipping weight of 1,700 lbs

Other pail sizes available upon request.

Storage
Store indoors. This product is not affected by excursions below these published storage temperatures, down to 10°F (-12°C), for a duration of no more than 14 days. Always inspect the product prior to use to make sure it is smooth and homogeneous and properly mixed.

PERFORMANCE DATA

TEST METHOD	SYSTEM	RESULTS
ASTM D4060	CS17 wheels, 1 kg load 1000 cycle	2.4 mg loss after 1000 cycles/2 mil loss after 1000 cycles
Shore A at 77°F (25°C) ASTM D2240	7 day shore A	45
Tear Strength Die C ASTM D624	7 day tear strength	40 lbs/in
Tensile Strength ASTM D412	60 mil or 100 mil	>175 psi
Elongation ASTM D412	60 mil or 100 mil	>350%

Rev 09/19