Blackhawk™ 5710 Membrane

SELECTION & SPECIFICATION DATA

Type
Asphalt Modified Polyurethane

Description
Blackhawk 5710 Membrane is a very flexible, cold-applied liquid waterproofing. This trowel-grade material can be used alone or as a detail mastic in conjunction with Blackhawk 5700 Membrane/Sealant.

Features
- Crack bridging
- Seamless monolithic
- Flexible elastomer
- High elongation
- Cold-applied
- High film build
- Sag resistant

Uses
- Foundation waterproofing
- Vertical waterproofing
- Between-slab (split-slab) waterproofing
- Below-grade waterproofing
- Secondary containment
- Wastewater containment
- Crack isolation

Color
Black

Primer
Self-priming on most concrete and metal surfaces. Novocoat SC1100 Primer/Sealer may be used to reduce the risk of outgas blisters on concrete.

Topcoat
Aggregate broadcast or coatings

Film Thickness (FT)
125 mils per coat

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
Substrate must be clean, dry and free of contaminants.

Steel
Immersion: SSPC-SP10 Near White Metal Blast with angular profile of 2.5 - 3.5 mils.

Non-immersion: SSPC-SP6 Commercial Blast with angular profile of 1.5 - 3.0 mils, SSPC-SP2 Hand Tool or SSPC-SP3 Power Tool Cleaning are suitable for mild environments.

Self-priming on steel.

Concrete and Concrete Masonry Unit (CMU)
Concrete must be cured 28 days at 75°F (24°C) and 50% relative humidity or equivalent. Prepare surfaces in accordance with ASTM D4258 Surface Cleaning of Concrete and ASTM D4259 Abrading Concrete. Voids in concrete surfaces may require filling. Mortar joints should be cured a minimum of 15 days. Prime with Novocoat SC1100 Primer/Sealer.

Previously Painted Surfaces
Consult with ErgonArmor Technical Service.

MIXING & THINNING

Mixing
Do not mix by hand. Always inspect the product prior to use to make sure it is smooth and homogeneous. Use an electric or air driven 1/2-inch drill with an 8-inch square metal mixing blade. Premix Part A for 1 minute to reduce viscosity, taking care not to 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
45A:1B 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)

Pot life is shorter at higher temperatures. A larger volume of mixed material will have a shorter pot life than a smaller volume.

Recoat Window
Recoat window is typically 1 - 4 hours at 77°F (25°C). Cured material over 4 hours may need to be prepared as stated in the repair and maintenance section below.

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.

APPLICATION GUIDELINES

Trowel Application
Typically applied by gloved hand or trowel.

Tie-in
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.

Blackhawk™ 5710 Membrane

PACKAGING & HANDLING

ITEM#	PACKAGING
K-5710-005-001	Part A - Pail - 4 gallons
K-5710-005-001-KT	Kit - 4 gallons
K-5710-005-001-UN	Part A - UN Pail - 4 gallons

Storage & Shelf Life

Maintain products in original packaging and sealed until ready for use. Estimated shelf life is 2 years when stored in a dry area at 70°F (21°C). Actual shelf life may vary with storage conditions.

If there is any question with respect to the quality of the components, check reactivity prior to use. For assistance consult with ErgonArmor.

SAFETY

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

Provide thorough air circulation during and after application until the material has cured when used in enclosed areas.

TYPICAL PHYSICAL PROPERTIES

TEST METHOD	SYSTEM	RESULTS
Abrasion Resistance ASTM D4060	CS17 wheels, 1 kg load 1000 cycle	2.4 mg loss after 1000 cycles/2 mil loss after 1000 cycles
Hardness 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%
Solids content		90% by weight
VOC value(s)		<200 g/L
Maximum dry temperature Resistance		225°F (107°C) Excursions to 250°F (121°C)
Liquid tightness		
Water absorption		
Permeability		

Rev. 06/2025