Blackhawk™ 5700 Membrane/Sealant

SELECTION & SPECIFICATION DATA

Type
Asphalt Modified Polyurethane

Description
Blackhawk 5700 Membrane/Sealant is a liquid applied, 2-component elastomeric membrane. It has exceptional chemical and abrasion resistance. As a cold applied chemistry, it is well suited as an alternate where hot applied membrane systems are not practical. Typical applications include primary and secondary containment, waste 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
- Elastomeric properties
- Excellent resistance to acids, alkalis, and salts
- Service temperature of -80°F - 200°F (-62°C - 93°C)
- Waterproof

Uses
- Where structural movement occurs on dissimilar substrates due to temperature and mechanical stress is expected, it forms a tough, adhesive bond that stretches and recovers.
- Where adhesive to more than one construction material is desired. Example: between bridge decks where one side is concrete, the other metal. It bonds to concrete, metals, masonry, wood, glass and most plastic materials including urethane insulation.
- Plant floors and highway joints.
- In horizontal and low-sloped joints.

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

Finish
Gloss

Dry Film Thickness (DFT)
30 mils per coat

VOC Value(s)
<200 g/L

Dry-To-Touch
4 hours at 77°F (25°C)

Full Cure
24 hours at 77°F (25°C)

Limitations
Blackhawk 5700 should not be used where it will be exposed to high concentrations of oil or organic solvents. It is subject to ultraviolet degradation and therefore should not be exposed to sunlight for long periods as it will start to chalk, discolor and lose its glossy finish.

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.

Previously Painted Surfaces
Consult with Armor Technical Service.

MIXING & THINNING

Mixing
An electric or air driven mixer is recommended. A standard metal, square head mixing blade having a minimum 8 in head width is suggested and is available from multiple online and retail store suppliers.

Premix Part A for 1 minute to reduce viscosity and ensure homogeneity. With vortex created, add Part B hardener slowly over a period of at least 45 seconds. Move the mix blade around in the pail to ensure full dispersion of the Part B hardener for 3 minutes. Proper blending of the Part A and Part B occurs when a slight vortex appears on top of the blend while mixing.

Do not allow moisture contamination into the mix. Do not mix by hand.

For additional instructions showing a proper mix of Blackhawk 5700, a demonstration video can be found on our website. Caution: Material that reaches its full cure cannot be recovered. Therefore, it is recommended to guard against material set up on tools and pump equipment including hoses, guns, pumps etc. Flush and clean all equipment after use with mineral spirits.

Thinning
Up to 12 oz per gallon

Ratio
32:1 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)

Cleanup
Mineral spirits

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APPLICATION GUIDELINES

Spray Application	Consult with Armor Technical Service.
Brush	Medium/thick bristle brush
Roller	Short-nap synthetic roller cover with phenolic core

PACKAGING, HANDLING & STORAGE

ITEM#	PACKAGING
K-5700-005-001	Pail - Part A - Base - 3.94 gallons
K-5700-005-001-KT	Kit - 4.0 gallons

Theoretical Coverage Rate	40 - 50 square feet per gallon at 30 mils
Storage & Shelf Life	Estimated shelf life is 12 months when stored in a dry area at 75°F (24°C). Actual shelf life may vary with storage conditions. Store indoors. This product is not affected by excursions below these published storage temperatures, down to 10°F (-17°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.

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	Thorough air circulation must be used during and after application until the product is cured. User should test and monitor exposure levels to ensure all personnel are within safe limits.

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