

SELECTION & SPECIFICATION DATA

Generic Type	Asphalt Modified Polyurethane
Description	BH5700 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. 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	<ul style="list-style-type: none"> • Low VOC • Crack Bridging • UV Resistant • >400% Elongation • Good Adhesion to asphalt
Color	Black
Finish	Gloss
Primer	Self-priming on most concrete, and metal surfaces. Novocoat SC 1100 may be used to reduce the risk of outgas blisters on concrete.
Topcoats	Aggregate broadcast or coatings
Dry Film Thickness	40 – 125 mils per coat *depending on slope
Solids Content	By Volume 90% minimum
Theoretical Coverage Rate	40 – 50 sqft/gl at 30 mils
VOC Value(s)	<100 g/L
Dry Temp. Resistance	225°F Excursions to 250° F
Limitations	Will lose gloss, discolor, and chalk in sunlight exposure.
Cure Schedule	90°F: 30 minutes 75°F: 40 minutes 60°F: 50 minutes

SUBSTRATES & SURFACE PREPARATION

General	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 or CMU Concrete 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 min of 15 days.
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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	The viscosities of the two components are such that the contents of Part B container can be readily poured into the Part A and mixed at product temperatures above 60°F. An electric or air driven mixer (generating a vigorous vortex) is recommended. A metal, spiral head mix design having a minimum 4" head diameter is suggested and is available from Grainger and other suppliers http://www.grainger.com/Grainger/Drum-Mixer-2FDJ3?Pid=search the phone number is 1-800-472-4643. Part number F2DJ3.
	DO NOT MIX PARTIAL KITS.
	Mix Part A for a 1 minute premix to reduce viscosity and ensure homogeneity. With vortex created, add Part B hardener slowly. Move the mix blade around in the pail to ensure full dispersion of the Part B hardener for 3 minutes. Upon completion, place mix head in empty pail and spin off excess material hanging on mix blade.
	Do not allow moisture contamination into the mix
	Caution: Material that reaches its full cure cannot be recovered so 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.
Components	Two: Part A Resin and Part B Hardener
Thinning	DO NOT THIN
Ratio	31:1 Ratio (A to B) by Weight
Pot Life	30 minutes at 32°C (90°F) 40 minutes at 24°C (75°F) 50 minutes at 16°C (60°F) Not recommended below 60°F

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

Spray Application (General)	The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.
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- Conventional Spray** Pressure pot equipped with dual regulators, 3/8" I.D. minimum material hose, .070" I.D. fluid tip and appropriate air cap.
- Airless Spray Single Leg or Hot Pot** Pump Size: 45:1 or greater
Hose Length/Diameter: 200 ft x 1/2"
Whip Length/Diameter: 15 ft x 1/4"
Work Life: 4 gallons at 32°C (90°F):
- Brush** Use a medium/thick bristle brush.
- Roller** Use a short-nap synthetic roller cover with phenolic core.
- 1/4" Notched Squeegee** Horizontal application can be achieved by using a 1/4" serrated (saw tooth) neoprene squeegee and allow for self leveling to occur. 125 mils typically results from this technique.

CLEANUP & SAFETY

- Cleanup** Use mineral spirits for suitable cleanup. In case of spillage, absorb and dispose of in accordance with local applicable regulations. Refer to SDS for more information.
- Safety** Read and follow all caution statements on this product data sheet and on the SDS for this product. Wear protective clothing, gloves and eye protection.
- Ventilation** Thorough air circulation must be used during and after application until the product is cured.
- Re-coat Window** Re-coat window is typically 1 – 4 hrs. Cured material over 4 hrs may need to be prepared as stated in the repair and maintenance section below.

PACKAGING, HANDLING & STORAGE

- Shelf Life** 2 years in unopened original container
- Storage Temperature & Humidity** 40° – 110°F (4° – 43°C)
0 – 100% Relative Humidity
- Packaging** 4-gallon kit:
Part A: 4-gallons (34 lbs.) in a 5-gallon pail.
Part B: 341 grams in a quart can.
42-pails per pallet are stacked on a 48" x 45" with a gross shipping weight of 1,700 lbs
-Other pail sizes available upon request.
Tube sets: case of six
- Storage** Store Indoors. This product is not affected by excursions below these published storage temperatures, down to 10°F, 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 D 4060	CS17 wheels, 1 kg load 1000 cycle	2.4 mg loss after 1000 cycles/2 mil loss after 1000 cycles
ASTM D 2240 Shore A at 25°C	7 day shore A	45
ASTM D 624 Tear Strength Die C	7 day tear strength	40 lbs/in
ASTM D 412 Tensile Strength	60 mil or 100 mil	>300 psi

REPAIR

5714 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.

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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 material safety data sheets before using. While all statements, technical information, and recommendations contained herein are based on information our company believes to be reliable, nothing contained herein shall constitute any warranty, express or implied, with respect to the products and/or services described herein and any such warranties are expressly disclaimed. We recommend that the prospective purchaser or user independently determine the suitability of our product(s) for their intended use. No statement, information or recommendation with respect to our products, whether contained herein or otherwise communicated, shall be legally binding upon us unless expressly set forth in a written agreement between us and the purchaser/user. Please contact ErgonArmor for further information at 877.982.7667 or FAX 601-933-3381. For all Terms and Conditions of Sale see ergonarmor.com.

ORDERING INFORMATION
For additional information, prices, or to place an order, please contact your ErgonArmor sales representative. If you do not know the name of your sales representative, call 877-98ARMOR.