



PolyArmor *HLA8500 WB*

TECHNICAL DATA SHEET

PolyArmor HLA 8500 WB is a single component water-based aliphatic polyurethane coating. The coating can be applied by roller, brush or spray techniques. It shows good adhesion to several substrates including spray elastomers, concrete, and primed metal. PolyArmor HLA 8500 WB was designed as a topcoat for aromatic spray elastomers. Its physical properties are equal or higher than typical spray elastomer so an increase in product performance is likely. Due to its high elasticity and excellent mechanical properties, the material exhibits excellent wear resistance. The coating has excellent resistance to mild acids and solvents. It is also resistant to chalking and colour changes. PolyArmor HLA 8500 WB is fast curing and several coats can be applied in one day during suitable weather conditions. The coating has low VOC's and forms a continuous nonporous film. PolyArmor HLA 8500 WB has good freeze stability but viscosity increase will occur at lower temperatures. The product needs to be warmed if temperature falls below freezing.

TYPICAL COMPONENT PROPERTIES

	Units	PolyArmor HLA 8500 WB	Test Method
VISCOSITY	cPs	1200 – 1550 (at 77°F) (25 °C)	Brookfield
SPECIFIC GRAVITY	g/cms	1.034 – 1.141	ASTM D1475-98
SOLID CONTENT	%	40 – 45	ASTM
FLASH POINT	°C (°F)	>70 (>160)	Seta Flash Close Cup
VOLATILE ORGANIC COMPOUNDS	Lbs/gal	<1.5	
FREEZE-THAW STABILITY		pass 5 cycles	
PH		7.5 – 9.5	
SUBSTRATE AND APPLICATION TEMPERATURE	°C (°F)	Minimum – 10 (50) Maximum – 50 (122)	

TYPICAL PHYSICAL PROPERTIES

	Units	PolyArmor HLA 8500 WB	Test Method
SHORE HARDNESS	A	80 – 90	
HARDNESS, PENCIL		2H	
TENSILE STRENGTH	psi	5700 - 5900	ASTM D638
ELONGATION	%	150 - 180	ASTM D638
TEAR STRENGTH	pli	300 – 350	ASTM D412
APPLICATION THICKNESS	mils	4 - 8 wet	
DRYING TIME (2 MIL WET FILM ON GLASS @ 75°F, 55% R.H.)	min.	30, through dry	
RECOAT TIME	hrs	0.5 – 24	
CURE TIME	hrs	24 – full service	
SOLVENT SWELL, % SWELL AFTER 24-HR. IMMERSION AT ROOM TEMPERATURE (LINEAR):			
WATER	%	10	
ISOPROPYL ALCOHOL	%	25	
METHYL ETHYL KETONE	%	35	
XYLENE	%	20	
1,1,1-TRICHLOROETHANE	%	30	
PERCHLOROETHYLENE	%	20	
HYDROLYTIC STABILITY (1 WEEK @ 70°C, 95% R.H.)		Retains 65% of original properties	
ACCEPTABLE RELATIVE HUMIDITY	%	80	

BASED ON LAB SAMPLES NOTE: PHYSICAL PROPERTIES MAY VARY. THE END USER SHOULD CHECK THE SUITABILITY OF THIS PRODUCT PRIOR TO USE.



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FEATURES

- UV Stable
- Easy to apply
- Shiny finish

RECOMMENDED USES

- Foam coatings
- Fishing net coatings
- Sports net coating
- Rehabilitation of old urethane surfaces
- Utility vehicles, buses, boats

COLOR

Black, White, Gray, and Clear are available. Other colors can be requested. However longer lead times, minimum order, and premium pricing will apply.

MIXING & APPLICATION PROCEDURES

PolyArmor HLA 8500 WB is fully formulated and ready for use, however it is necessary to remove any skin that may have formed on the surface of opened containers and thoroughly mix all containers prior to use. Adequate mixing is required to achieve a uniform and consistent coating. Product temperature should be 59-90°F during application onto substrates that are free of loose particles, oil, grease, dirt, paint, etc. PolyArmor HLA 8500 WB can be used to achieve both water permeable and impermeable coatings. Application thickness should be between 3 - 8 mils wet with two coats applied in opposite spray directions after 30 minutes of dry time for the first coat to achieve the most desirable coating. Thicker coats will require more time to dry and achieve optimum film properties. Similarly, lower temperatures and higher humidity conditions will increase dry time of each coat. Time between spray coats should not exceed 24 hours. Freshly applied coatings should not be exposed to water for at least 2 hours so do not apply if rain is in the forecast. Allow coating to cure for at least 24 hours prior to being placed into full service. Some moderate use can be achieved after 4 hours.

HEALTH AND SAFETY PRECAUTIONS: Before using, refer to Safety Data Sheets (SDS). Ensure the same safe working methods are followed for all persons in the work area. Wear suitable protective clothing, rubber gloves and safety goggles with side shields during mixing and application. Respiratory masks should be worn at all times when adequate ventilation does not exist. Contact with skin-wash immediately with soap and water. Contact with eyes-rinse immediately with lots of water and seek medical attention. Keep away from children. **LIMITATIONS:** The end user should check the suitability of this product prior to its application. Do not open until ready to use. The Hanson Group assumes no liability for substrate defects. High temperatures and humidity can significantly affect pot life and the cure time. Low temperatures and humidity can extend the cure time. **NOTICE:** The information and data contained herein do not constitute sales specifications. The product properties may be changed without notice. No liability, warranty or guarantee of product performance is created by this document. It is the Buyer's responsibility to determine whether Hanson products are appropriate for Buyer's use and to ensure that Buyer's workplace and disposal practices are in compliance with applicable laws and regulations. No freedom from any patents or other industrial or intellectual property rights is granted or to be inferred.