

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/cm ₃	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	
РН		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		2Н	
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.

HANSONCO.NET P: 770.495.9554 F: 404.521.4396 E: SALES@HANSONCO.NET 3044 ADRIATIC COURT, PEACHTREE CORNERS, GA 30071

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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.

PRECAUTIONS: Part-A contains an Isocyanate. 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. 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. NOTICE: Read all the information in this product information bulletin, and safety data sheet (SDS) before applying any material. The information contained herein is for the purpose of identifying the product and does not constitute a warranty or quaranty that the product will conform to this description. Product specifications and performance will vary depending on application methodologies, raw materials and other factors. All published information and specifications are subject to change without notification. Technical data shown in product data sheets are typical but reflect laboratory test procedures conducted in laboratory conditions. Actual field performance and test results will depend on installation methods and site conditions. Field test results will vary due to critical job site factors. All recommendations, statements and technical data contained in this data sheet are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not auaranteed and are not to be construed as a warranty or auaranty of any kind. Satisfactory results depend upon many factors beyond the control of The Hanson Group, LLC. User shall rely on their own information and tests to determine suitability of the product for the intended use and user assumes all risk, loss. damage. expense and liability resulting from their direct use, indirect use or consequential to their use of the product. The Hanson Group, LLC shall not be liable to the buyer or any third party for any injury, loss or damage directly or indirectly resulting from use or inability to use the product. Products manufactured by The Hanson Group, LLC are free of defects for a period of one (1) year from time of manufacture. Liability and buyer's remedy under this limited warranty shall not exceed the purchase price of the materials in question. PolyArmor® is a trademark registered in the US Patent and Trademark Office. The marks of The Hanson Group, LLC, its divisions, slogans, emblems, other marks appearing in this document are the trademarks and/or service marks of The Hanson Group, LLC, its subsidiaries, affiliates or licensors.

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