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PolyArmor SRA9000

TECHNICAL DATA SHEET

PolyArmor SRA 9000 is a two component aromatic polyurea designed for various industrial and manufacturing applications. This product creates a waterproof seal and is extremely flexible, giving it high impact resistance. Due to the high elongation and flexibility, this polyurea product has a high COF (Coefficient of Friction) that creates a great nonskid surface. The product cures rapidly and can be top-coated with an appropriate long-term UV color stable coating within a few minutes, if needed.

FEATURES

- High Impact Resistant
- High Flexibility & Elongation
- High Coefficient of Friction
- Great Nonskid Coating
- No Cracking or Warping
- High Traction
- Protects Against Rust & Rot
- Speeds Production Process vs. Paint
- Reduces Sound Pollution
- Sound Dampening
- Waterproof
- Fast Cure, Light Foot Traffic within 15 min

RECOMMENDED USES

- Containment & Secondary Fuel Containment
- Coating/Lining for Floors, Walls, Roofs
- Marine Docks
- Pillars
- Decks
- Engine Compartments
- Utility Vehicles, Buses, & Boats
- Rehabilitation of Old Structures & Buildings

TECHNICAL DATA

	Units	Values		Test Method
HARDNESS	Shore A	90	Sprayed	ASTM D2240
DENSITY	g/cc	1.023		DIN 53479
PERCENT SOLIDS	%	100	Calculated	
TENSILE	psi	3090	Sprayed	ASTM D412
ELONGATION	%	575	Sprayed	ASTM D412
TEAR	pli	500	Sprayed	ASTM D624C
TABER ABRASION (CS-17)	mg/rev. loss	35/1000		ASTM D4060
ELCOMETER ADHESION	psi	>1200 Sandblasted Steel – Glue Failure >800 Concrete – Substrate Failure		ASTM D4541
COEFFICIENT OF FRICTION		Smooth surface 2.01 – Rough surface 1.89 on James Machine with Leather		ASTM D1894
COEFFICIENT OF FRICTION		Smooth surface .083 – Rough surface 1.89 on James Machine with Leather		ASTM D2047
IMPACT RESISTANCE	in-lb	176 (passed)		ASTM D2794
MANDREL BEND	mm	2 (passed)		ASTM D522
MODULUS 300%	psi	830		ASTM D412
MODULUS 400%	psi	1050		ASTM D412
MODULUS 500%	psi	1650		ASTM D412
GEL TIME / TACK FREE	Sec	8-10 / 20-25	Sprayed	
HANDLING TIME	Min	20 - 30	Sprayed	
LIGHT DUTY USE	Hrs	2	Sprayed	
FULL SERVICE USE	Hrs	24	Sprayed	

NOTE: PHYSICAL PROPERTIES MAY VARY ON THE TYPE OF SPRAY EQUIPMENT USED.
THE END USER SHOULD CHECK THE SUITABILITY OF THIS PRODUCT PRIOR TO USE

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 guaranty 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 guaranteed and are not to be construed as a warranty or guaranty 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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SURFACE PREPARATION

Surface preparation is the essential first stage treatment of a substrate before the application of any coating. The performance of a coating is significantly influenced by its ability to adhere properly to the substrate material. It is generally well established that correct surface preparation is the most important factor affecting the total success of surface treatment. The presence of even small amounts of surface contaminants, oil, grease, oxides etc. can physically impair and reduce coating adhesion to the substrate.

Be sure that surfaces are clean, dry, and sound and give sufficient profile to obtain adequate product adhesion. Remove all dust, efflorescence, laitance, salts, curing compounds, dirt, oil, form release agents, and other foreign matter. Perform an adhesion test prior to starting any coating project.

Metal and composite fiber surfaces should be thoroughly cleaned and primed for optimum adhesion or light abraded by blasting to a 2-3 mil profile. Consult your representative for further information.

Concrete should be cured for a minimum of 28 days prior to product application and have at least 3000psi compressive strength. If the concrete surface is unsuitable for coating, use a suitable primer or suitable primer with sand as a repair agent. Once the repair has cured, prime the entire surface intended for coating. Consult The Hanson Group for selecting the best primer for your substrate.

CONCRETE REPAIR

If the concrete surface is unsuitable for coating, use a suitable primer or suitable primer with sand as a repair agent. Once the repair has cured, prime the entire surface intended for coating. Consult The Hanson Group for selecting the best primer for your substrate.

COLOR

Black and Neutral – Non Standard colors and color packs are available upon request. Aromatic polyureas are known to yellow or darken in color when exposed to UV and/or sunlight.

COVERAGE RATE

1 gallon (3.79 liters) of POLYARMOR SRA 9000 will cover approximately 1600 square feet 1 mil (0.025mm) thick, and can be applied in one or more passes to achieve a desired thickness.

PACKAGING

52 gallons Part-A (Isocyanate) and 52 gallons Part-B (Resin) packaged as a “kit” in 2x55 gallon drums. 275 gallon IBC Totes are available.

MIXING PROCEDURES

Adequately blend POLYARMOR SRA 9000 Part-B (Resin) with air driven power tools until the mixture and color is consistent and uniform with no striations.

STORAGE

POLYARMOR SRA 9000 has a shelf life of 1 year shelf life from the date of manufacture, in factory-sealed containers. Storage temperature for Part-A and Part-B is between 55°F - 95°F. (Avoid freezing temperatures). Keep containers sealed tightly to eliminate any condensation, moisture, or water contamination in Part-A or Part-B. Use a Nitrogen to flush partial containers before re-sealing or Visuron’s “Quick Burp” in a convenient aerosol can.

APPLICATION

Primer is recommended on all substrates, except on properly prepared steel. Prior to application: Precondition both Part-A and Part-B to 75°F - 80°F (24°C - 27°C). Ensure that the substrate and outside air temperature is between 40°F and 104°F, and at least 6°F above the dew point and rising. Fit Part-A with a desiccant drying device. Apply POLYARMOR SRA 9000 using plural component, high pressure 1:1 ratio heated spray equipment.

TYPICAL SPRAY MACHINE REQUIREMENTS

- Capacity minimum 20 lbs. per minute
- Static pressure 1800 – 2500psi
- Spraying pressure 2200psi
- Pressure balance 100 variance desirable
- 300 psi variance maximum
- Temperatures preheaters & hose 155°F-165°F each. Check with your local representative
- POLYARMOR SRA 9000 should be sprayed in a smooth pattern, to establish uniform thickness and appearance. Perform a substrate adhesion test (if required) seven days after application of POLYARMOR SRA 9000.

EQUIPMENT CLEAN-UP

Immediately clean equipment with an environmentally safe solvent, as permitted by local regulations. Cured or dried material may be removed by mechanical means. Know your equipment and how to perform routine maintenance.