



PolyArmor RAA8503

TECHNICAL DATA SHEET

PolyArmor RAA8503 is a two component, room temperature curing elastomeric compound for industrial use. When mixed, application can be made by brush, squeegee, or spatula. Surfaces should be clean and dry. In some instances, abrasion may be required. The product cures to a tough, flexible thermoset. As a 100% solids system, PolyArmor RAA 8503 can be used in the field or a factory environment. The liquid elastomer bonds to a wide variety of substrates, and will cure to form a tough and durable film at ambient temperatures. PolyArmor RAA 8503 will also fully cure under cooler conditions but full properties will take longer to develop. PolyArmor RAA 8503 can be used as a surface coating, a seaming material as well as a repair adhesive.

FEATURES

- No solvent, zero VOC, 100% Solids
- Insensitive to high humidity or moisture conditions
- Versatile for a variety of substrates, simple to use
- Excellent water-resistance
- Very good chemical resistance
- Very good thermal stability
- Very good low temperature flexibility
- Very good abrasion resistance

RECOMMENDED USES

- Protective coating for wood, metal, concrete.
- Repair and adhesive patching for polyurea, polyurethane, fabrics, select plastics, rocks, masonry, concrete, wood and metal.

TECHNICAL DATA

MIX RATIO BY WEIGHT	100A:50B PBW	
GEL TIME @ 75°F	20 MINUTES	
DRY TIME @ 75°F	3-4 HOURS	
SHORE HARDNESS	70A	ASTM D-2240
TENSILE	1360 PSI	ASTM D-412
ELONGATION	360%	ASTM D-412
TEAR	350 PLI	ASTM D-624
VOC CONTENT	0 G/L	
RETURN TO SERVICE: FULL SERVICE	24 HOURS	
TOTAL SOLIDS BY WEIGHT	100%	ASTM D-2369

Tested in accordance to EPA 9090A, LARR Approval (CA). The value ranges stated in this Technical Data Sheet are based on system processing under laboratory conditions. Equipment configurations and/or field application conditions may produce variances in final system values.

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.



COLORS

Standard color is clear. Other colors are available upon request.

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.

STORAGE AND SHELF LIFE

Storage temperature for part-A and part-B is between 55° F - 90° F. Avoid freezing temperatures. Keep containers sealed tightly to eliminate any condensation, moisture, or water contamination in part-A or part-B. Six (6) months shelf life from the date of manufacture, in factory-sealed containers.

SURFACE PREPARATION

Surface Preparation: dirt, grease, oil and contaminants should be removed by detergent, solvent or water scrubbing and rinsing with water.

Mechanical Preparation: abrading or grinding the surface can also be used. The cleaner the surface, the better the adhesion. Primers may also be used on concrete and metal to insure optimum adhesion.

MIXING PROCEDURES, POT LIFE AT 75°F AND APPLICATION

PolyArmor RAA 8503 is a two (2) component adhesive: Part A and Part B.

- Open the Part B can and remix thoroughly for 2-3 minutes.
- Pour the mixed B into the A Can. Mix with mechanical or suitable jiffy type mixer for at least 2 minutes. Use paint stirrer to thoroughly scrape and mix side wall of can to insure a thorough mix.
- At 75F you will have approximately 20 minutes pot life before PolyArmor RAA 8503 becomes too thick to use.
- Lower ambient temperature, i.e., 45F, will make the PolyArmor RAA 8503 thicker and require longer mix time however the pot life will also be extended.
- When mixed, pour on the surface and brush, roll, squeegee, or blade to thoroughly wet the surfaces to be bonded. A thickness of 1/8" would be suitable for most applications.

Depending on ambient conditions the polymer will cure in a few hours to handle; 5 days for a complete cure. Heat may be applied with heat gun to accelerate the set up and cure rate, keeping the heat-gun 5-6 inches from the surface.