

PRODUCT DESCRIPTION

GPS-9772 is a two component, 100% solids, fast set, rigid aromatic hybrid polyurea/polyurethane spray for spray in mold applications requiring excellent impact resistance and durability. Typical applications include replication of rocks, stone panels, decorative boulders, sea corals, architectural trim, automobile aftermarket panels, wood and many more molded applications. GPS-9772 is also ideal for adding a plastic-like encapsulation shell for delicate foams and expanded polystyrene. Plus, GPS-2272 offers excellent flow to wet out molds for superior surface replication and appearance.

TYPICAL PROPERTIES

Solids, by Volume _____ 100%
VOC _____ 0.0 lbs/gal (0 gm/l)
Mix ratio, by volume _____ 1A:1B
Pot Life _____ 2-4 seconds
Cure to the Touch @ 150 mil _____ 1-2 minutes
Recoat Time _____ 0-12 hours
Demold Time _____ 3-5 minutes
Flash Point _____ >200°F (>93°C)
Hardness (ASTM D 2240) _____ 75 ± 5 D

Tensile Strength _____ 4000 ± 200 psi
Viscosity at 150-160°F (66-71°C), Brookfield:
Part-A _____ 100 ± 20cps
Part-B _____ 160 ± 50 cps
Density (Side A & B Combined) _____ 9.05 lbs/gal
Color _____ Neutral
Elongation _____ 20% ± 5%
Tear Strength, Die "C" (ASTM D 624) _____ 450 ± 50 pli
Service Temperature _____ -40°F to 300°F

PACKAGING, STORAGE AND SHELF LIFE

100 gallon kit: One 50 gallon drum of Part-A and one 50 gallon drum of Part-B. Avoid freezing temperatures. GPS-9772 has a shelf life of nine (9) months from date of manufacture in factory sealed containers.

Part-A and Part-B drums must be stored above 50°F (10°C). Avoid freezing temperatures. Store drums on wooden pallets to avoid direct contact with the ground. If stored for a long period of time, rotate Part-A and Part-B drums regularly.

SAFETY PRECAUTIONS

GPS-9772 IS FOR INDUSTRIAL USE ONLY. Avoid contact with eyes, and skin; do not inhale or ingest. When working with this material wear goggles, rubber gloves and a respirator. When spraying in a confined area, also wear a fresh air hood and make provision for forced ventilation. Refer to MSDS regarding individual components. This product contains Isocyanates and Curative Material.

MIXING

GPS-9772 may not be diluted under any circumstances. Thoroughly mix GPS-9772 Part-B Base material with air driven power equipment until a homogeneous mixture and color is obtained or use recirculation.

APPLICATION PROCEDURES

Remove all contaminant, oil and grease from substrate. For all molds, do a test patch with mold release to confirm the part will release before conditioning the entire mold.

GPS-9772 should be applied using a 1:1 plural component equipment capable of producing a minimum delivery rate of 114 gallons per minute at tip pressure of 2000 psi (13.8 MPa) and heating the individual component to 170°F (77°C) using an impingement gun. Hose temperature should be maintained at 135-150°F

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(57- 65°C). The GPS-9120 material should be preheated to 75-90°F (24-32°C). GPS-9120 should be sprayed in multidirectional passes for a proper uniform thickness.

WARRANTY

GLOBAL POLYMER SOLUTIONS warrants this product to be free of defects in material and workmanship. GLOBAL POLYMER SOLUTIONS's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at GLOBAL POLYMER SOLUTIONS's option, to either replace the products not conforming to this Warranty or credit to Buyer's account in the invoiced amount of the nonconforming products. Any claim under this Warranty must be made by the Buyer to GLOBAL POLYMER SOLUTIONS in writing within (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. Buyer's failure to notify GLOBAL POLYMER SOLUTIONS of such nonconformance as required herein shall bar Buyer from recovery under this Warranty.

GLOBAL POLYMER SOLUTIONS makes no other warranties whether express, implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply. In no event shall GLOBAL POLYMER SOLUTIONS be liable for consequential or incidental damages.

Any recommendations or suggestion relating to the use of the products made by GLOBAL POLYMER SOLUTIONS, whether in its technical literature, or in response to specific inquiry, or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by buyers having requisite skill and know-how in the industry, and therefore it is for Buyer to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that Buyer has done so, at its sole discretion and risk. Variation in environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results.

LIMITATION OF LIABILITY

GLOBAL POLYMER SOLUTIONS's liability on any claim of any kind, including claims based upon GLOBAL POLYMER SOLUTIONS's negligence or strict liability, for any loss or damage arising out of, connected with, or resulting from the use of the products, shall in no case exceed the purchase price allocable to the products or part thereof which gives rise to the claim. In no event shall GLOBAL POLYMER SOLUTIONS be liable for consequential or incidental damages.