

### PRODUCT DESCRIPTION

GPS-5502PW is ANSI/NSF 61 approved for direct contact with potable water in steel pipes from nine inches (23cm) and above and steel or concrete tanks from five gallons (19 liters) and above. It is a fast setting, rapid curing (3-5 seconds), 100% solids (Zero VOC), aromatic, two component spray polyurea that is applied to suitably prepared concrete and metal surfaces at 2mm recommended thickness. It's extremely fast gel time makes it suitable for applications down to -20°F (-28°C). GPS-5502PW may be applied in single or multiple coat application without appreciable sagging and is relatively insensitive to moisture and temperature allowing application in most temperatures. GPS-5502PW offers a tack free time of less than forty-five seconds and exhibits 450% elongation upon curing with 50 Shore D hardness.

### TYPICAL PROPERTIES

**Solids, by Volume** \_\_\_\_\_ 100%  
**VOC** \_\_\_\_\_ Zero  
**Mix Ratio (by volume)** \_\_\_\_\_ 1:1  
**Color(s)** \_\_\_\_\_ Neutral or special order colors  
**Min/Max Thickness** \_\_\_\_\_ 35 mils/150+ mils  
**Number of Coats** \_\_\_\_\_ One coat multi-pass  
**Touch Cure** \_\_\_\_\_ 30-45 sec. @ 77°F (25°C)  
**Foot Traffic** \_\_\_\_\_ 1-2 hours @ 77°F (25°C)  
**Return to Service** \_\_\_\_\_ >24 hours @ 77°F (25°C)  
**Time to Recoat** \_\_\_\_\_ 0-6 hours  
  
**Application Temperature Range** \_\_\_\_\_ 32°F - 140°F  
 (6°C - 60°C)  
**Service Temperature Range** \_\_\_\_\_ -40°F - 120°F  
 (-40°C - 49°C)  
**Certifications** \_\_\_\_\_ USA: ANSI/NSF-61  
 Australia: AS/NZS 4020

**Hardness (ASTM D 2240)** \_\_\_\_\_ 50 ± 5 (Shore D)  
**Tensile Strength (ASTM D 628):** \_\_\_\_\_ 3500 ± 300 psi  
**Elongation (ASTM D 628)** \_\_\_\_\_ 450% ± 20%  
**Tear Resistance (ASTM 624)** \_\_\_\_\_ 450 ± 40 pli  
**Flash Point** \_\_\_\_\_ >200°F (93°C)  
**Permeability (ASTM E-96)** \_\_\_\_\_ 0.361 perm inch  
**Taber Abrasion Resistance (ASTM D4060)**  
 (CS17 wheel, 1000 cycles, 1 kg load)(max) \_\_\_\_\_ 6 mg loss  
**Water Absorption (ASTM D471)** \_\_\_\_\_ <0.5%  
**Impact Resistance @ 25°C (ASTM G14)** \_\_\_\_\_ >200 lbs.  
**Crack Bridging (ASTM C836)** \_\_\_\_\_ Passes  
**Intercoat Adhesion (within recoat window)** \_\_\_\_\_ Excellent  
**Adhesion to Concrete (primed)** \_\_\_\_\_ >500 psi  
**Adhesion to Concrete (blasted)** \_\_\_\_\_ > 500psi  
**Adhesion to Steel (2mil profile)** \_\_\_\_\_ >900psi

### PACKAGING, STORAGE AND SHELF LIFE

10 gallon kit: 5 gallons (47 lbs. net) Part-A (Isocyanate side) and 5 gallons (43 lbs. net) Part-B (Resin side). 100 gallon kit: 50 gallons (463 lbs. net) Part-A (Isocyanate side) and 50 gallons Part-B (Resin side) (Black: 433 lbs. net, Clear: 431 lbs. net).

Material has a shelf life of 12 months after the date of manufacture if properly stored. Refer to Batch Number on product label for date of manufacture.

### SAFETY PRECAUTIONS

**GPS- 5502PW 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.

### MIXING

GPS- 5502PW may not be diluted under any circumstances. Thoroughly mix 5502PW Part-B (Resin side) with air driven power equipment until a homogeneous mixture and color is obtained.

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## **APPLICATION GUIDELINES**

Consult with a GLOBAL POLYMER SOLUTIONS Representative for complete and detailed application instructions. **GPS-5502PW** is applied using a plural component, high-pressure, airless spray unit with in-line heaters. Material supply (drums of A and B) should be agitated and heated prior to application. Vent material supply containers with nitrogen or desiccant.

Substrate should be free of oil, grease and moisture. For good flow and leveling of this product, the substrate should be a minimum temperature of 60°F and the product should be heated to a temperature between 120°F and 140°F (49-60°C). Pressures should generally be 2000 psi (137 bars) on components A and B while spraying.

## **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.