

## **SURPRO HDWB**

SP-690 & SP-691

### **WATERBORNE LOW VOC, TWO-COMPONENT URETHANE/ACRYLIC FLOOR SEALER FOR CONCRETE**

**DESCRIPTION:** SURPRO HDWB is a high performance, two-component urethane/acrylic sealer formulated specifically to seal and protect concrete and other cementitious surfaces that are subject to the heaviest use conditions. SURPRO HDWB is semi-gloss, chemically resistant, highly durable, and cures hard within 24 hours of application. The low odor formula is designed to allow application without disruption of normal operations - ideal for areas where solvent odors from traditional acrylic or polyurethane coatings are not tolerated.

SURPRO HDWB offers enhancement of the substrate similar to solventborne sealers. In interior applications, if a more "natural", un-enhanced appearance of the substrate is desired, SURPRO HDWB may be applied over SURTEC BOND COAT waterborne acrylic sealer. SURPRO HDWB has also shown compatibility with waterborne epoxy primers and sealers, however, any combination of SURPRO HDWB with other coatings and sealers must be tested in a mockup, either onsite or in a workshop, to guarantee compatibility and should be offered to the customer for approval.

**VOC COMPLIANCE:** When mixed and used according to directions, SURPRO HDWB conforms with all Federal, State and Local VOC regulations. VOC content = 46 grams/liter.

**SURFACE PREPARATION:** Surfaces shall be clean, dry, structurally sound and free of dirt, grime and other foreign substances (efflorescence, oils, silicones, all other waterproofing materials, form release agents, curing compounds, etc.). Concrete floors must be ground or etched to a profile to at least that of 120 grit sandpaper. The concrete may be etched with SURTEC SUPER ETCH PLUS used according to directions.

**MIXING INSTRUCTIONS:** Add one part by volume of SURPRO HDWB Part B (Cure) to three parts of SURPRO HDWB Part A (Resin) in an open container. Mix well (approximately 5 minutes) with a drill mixer or other mechanical mixer until thoroughly mixed. After mixing, let stand for 10 - 15 minutes for defoaming and induction. DO NOT mix more than can be used in a 2 hour period.

**APPLICATION:** The material shall not be applied if the surface or ambient temperature is below 45° F. or if the temperature is expected to fall below freezing (32° F.) within the 24 hour curing cycle.

SURPRO HDWB should be applied by good quality thin to medium nap roller (1/4" or 3/8") for smooth surfaces, or a thick nap roller (1/2" or 3/4") for rough surfaces. Working small areas at a time (~20 – 30 sq. ft.) apply mixed SURPRO HDWB to the surface with the roller, taking the material from a roller pan. Avoid drips. Work the SURPRO HDWB in a "W" shaped pattern across the area to distribute it evenly, then use a final forward stroke with the roller. Note: FRONT ROLL AND LIFT only as the finish stroke as "backrolling" will leave permanent marks in the cured finish. A second, front roll finishing pass can be done with a dry roller to further smooth and take out roller marks in the finish – front rolling only. Check for any missed areas before moving on to the next area. Tie sections together with the same front roll and lift technique. Maintain a wet edge for even application. Note: SURPRO HDWB has no obvious end of potlife, therefore, do not apply beyond the 2 hour limit or a film with poor characteristics (e.g., bubbling, foaming, blotchiness) may result.

For adequate protection on porous surfaces, at least two coats should be applied. For best results, the second (or subsequent) coat should be applied when the previous coat is tack free and walkable, typically within 8 to 12 hours of application, depending on temperature and humidity. Prior to application of the second or subsequent coats, damp mop the floor with a 2 oz. per gallon of water solution of Surtec HC-150 to remove any surface contaminants.

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### **APPLICATION (continued):**

If applying a second coat more than 24 hours after application of the first coat was first begun, or if recoating previously applied, fully cured SURPRO HDWB, sand the surface with a 120 grit screen disk, followed by cleaning with SURTEC HC-150 diluted to 2 ounces per gallon of water. Rinse thoroughly and allow to dry before application.

**COVERAGE:** Coverage will vary with the porosity of the substrate but will average 350 to 500 sq. ft. per gallon (see below for further guidance). Avoid application of heavy coats (e.g., applied at a rate of 100 to 200 sq. ft. per gallon) as bubbling or foaming in the finished coat will likely occur.

### **SPECIFICATIONS:**

COLOR:.....	Part A: White, milky; Part B: Clear
ODOR: .....	Mild
HMIS RATING: .....	Health = 2 Flammability = 1 Physical Hazard = 1
VOC CONTENT: .....	46 grams/liter
SOLIDS: .....	51%
SPECIFIC GRAVITY/DENSITY (mixed): .....	1.07 /8.9 lbs. per gallon
MIX RATIO: .....	3:1 by volume (72.9:27.1 by weight)
VISCOSITY (mixed): .....	50 - 100 cps. (Brookfield, spindle #3, 50 rpm)
INDUCTION TIME AFTER MIXING: .....	15 minutes
POT LIFE: .....	2 hours
COVERAGES: (Note: These are averages. Actual coverage may vary depending on type, age and condition of concrete, application method, and other local conditions. Measurements are given in square feet per gallon.)	
Unsealed Concrete or Masonry	
1 <sup>st</sup> coat.....	150 to 250 (rough finish) 350 to 550 (smooth finish)
2 <sup>nd</sup> coat .....	400 to 500 (rough finish) 500 to 600 (smooth finish)
EXTERIOR DURABILITY: .....	Excellent
WATER RESISTANCE: .....	Excellent
CHEMICAL RESISTANCE: .....	Very Good
FLASH POINT: .....	None (C.O.C. Method)
DRYING TIME (at 20° C./68° F., 50% relative humidity):	
TACK FREE:.....	8 to 12 hours
RECOAT: .....	8 to 24 hours
LIGHT TRAFFIC: .....	24 hours
HEAVY TRAFFIC: .....	36 to 72 hours
GLOSS: .....	75 (ASTM Test D-523, 60°)
SAFETY (under foot): .....	Exceeds slip resistance requirements (ASTM Test D-2047)
PACKAGE SIZES: .....	1 gallon kit (3 qts. Part A, 1 qt. Part B) 4 gallon kit (3 gals. Part A, 1 gal. Part B)