

SURPRO 688

SP-686 & SP-687

LOW VOC WATERBORNE PIGMENTED URETHANE ACRYLIC SEALER FOR CONCRETE

DESCRIPTION: SURPRO 688 is a pigmented high performance, three-component urethane/acrylic sealer formulated specifically to protect surfaces that are subject to the heaviest use conditions. The SURPRO 688 package includes Part A - Resin, Part B - Cure and a container of selected pigment dispersion (Tint). SURPRO 688 is suitable for concrete and other cementitious surfaces, as well as a topcoat for existing sealers and coatings. SURPRO 688 is 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.

It is always recommended that SURPRO 688 be tested in a mockup, either onsite or in a workshop, to confirm compatibility with any existing coatings, to determine proper surface preparation and to also receive the approval of the customer for overall appearance and color selection.

VOC COMPLIANCE: When mixed and used according to directions, SURPRO 688 conforms with all Federal, State and Local VOC regulations. VOC Content = 38 grams / liter.

SURFACE PREPARATION: Surfaces shall be clean, dry, structurally sound and free of dirt, grime and other foreign substances. If stripping of old sealer is necessary, use SURTEC ULTRA STRIP, SAFE STRIP or ENVIROSTRIP, or consult a SURTEC Technical Representative. If applying SURPRO 688 over existing epoxies or other coatings, it is critical that compatibility of the SURPRO 688 is confirmed in an onsite test mockup. In most cases, the surface must be screened with at least a 100 grit screen to assure adhesion of the SURPRO 688.

Smooth concrete floors must be ground or etched sufficient enough to expose "sand tips" in the concrete, to a "salt and pepper" appearance. The concrete may be etched with one part SURTEC SUPER ETCH PLUS diluted with 2 to 3 parts water, followed by neutralization with 2 oz. of SURTEC HC-150 heavy duty cleaner per gallon of water. Rinse thoroughly and allow to dry before application.

MIXING INSTRUCTIONS: Mixing instructions must be strictly adhered to. Add one part by volume of SURPRO 688 Part B (Cure) to three parts of SURPRO 688 Part A (Resin) in an open container. Mix well (approximately 5 minutes) with drill mixer or other mechanical mixer until thoroughly mixed. Add the tint pack and mix for another 5 minutes. After mixing, let stand for 10 minutes for defoaming and induction. DO NOT mix more than can be used in a 2 hour period.

APPLICATION: SURPRO 688 shall not be applied if the surface or ambient temperature is above 85°F, below 45° F. or if the temperature is expected to fall below freezing (32° F.) within the 24 hour curing cycle.

SURPRO 688 should be applied by good quality thin to medium nap roller (1/4" to 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 the mixed SURPRO 688 to the surface with the roller, taking the material from a roller pan. Avoid drips. The mixed material is applied to the surface with typical back and forth rolling to cover the surface, but finishing strokes must be performed with a "FRONT ROLL AND LIFT TECHNIQUE". Again, use a 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 eliminate 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 throughout the application for an even, defect-free final appearance.

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APPLICATION (continued):

Note; SURPRO 688 shows slight thickening at the end of its 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, and fully opaque final color on new concrete surfaces at least 2 coats should be applied. For best results, the second (or subsequent) coat should be applied when the previous coat is tack free and walkable. Depending on conditions (ambient and slab temperature, humidity, etc.) the expected dry time for SURPRO 688 on bare concrete is 8 to 12+ hours for the first coat and 6 to 10 hours for subsequent coats, and 6 to 10 hours when applied to existing sealers and coatings.

If applying a second (subsequent) coat more than 16 hours after the first (previous) coat is tack free or If applying over existing, fully cured SURPRO 688, sand the surface with a 100 grit screen disk, followed by cleaning with 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. Do not over apply SURPRO 688; coverage for most surfaces should be at least 400 sq. ft. per gallon. If the product is over-applied (e.g. applied at a rate of 100 to 200 sq. ft. per gallon) bubbling or foaming in the finished coat may occur.

SPECIFICATIONS:

COLOR:.....	Various colors available
ODOR:	Sweet
HMIS RATING:	Health = 1 Flammability = 0 Physical Hazard = 1
VOC CONTENT:	38 grams/liter
SOLIDS:	51%
SPECIFIC GRAVITY/DENSITY (mixed):	1.07 /8.9 lbs. per gallon
MIX RATIO OF SEALER COMPONENTS: ..	3:1 by volume (72.9:27.1 by weight)
VISCOSITY (mixed):	50 - 100 cps. (Zahn #2 cup)
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	
1 st coat.....	150 to 250 (rough finish) 350 to 550 (smooth finish)
2 nd 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:	65 (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, 1 pint Tint) 4 gallon kit (3 gals. Part A, 1 gal. Part B, ½ gal. Tint)

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SURTEC warrants this product to be of consistent quality. SURTEC'S warranty is limited to the replacement of product proven defective. The user assumes all other risks and liabilities resulting from the use of this product. If you have any questions, please call SURTEC at (209) 820-3700.