



### SURFACE PREPARATION

Plywood or concrete substrates must be free of all contamination that may impair adequate bonding. Substrates must be sloped a minimum of 4" per foot for drainage, and must be primed with the appropriate primer before application of the membrane and surface protection materials.

**Concrete:** The surface of concrete substrates must be clean and free of standing water. All holes, joints and cracks must be pointed flush with portland cement mortar and all high spots cut or ground off to provide a smooth, even surface. Before the material is applied, the substrate must be clean and free of dust or foreign material. Paint, grease and oil must be removed either by grinding or sandblasting and concrete surfaces must be shotblasted or water blasted. Control joints should be cut per standard concrete construction practices and caulked. Concrete must exhibit 3000-psi minimum. Concrete surfaces to be coated must be trowel finished in compliance with the American Concrete Institute (except that hand troweling is not required), followed by a fine hair brooming, left free of loose particles, and shall be without ridges, projections, voids and concrete droppings that would be mechanically detrimental to coating application or function.

### New and Old Concrete:

Refer to SSPC-SP13/NACE 6, or ICRI 03732: CSP 3-5. New concrete must be cured for 28 days prior to product application. Surface must be clean, dry, sound and offer sufficient profile for product adhesion. Remove all dust, dirt, oil, form release agents, curing compounds, salts, efflorescence, laitance and other foreign matter by shotblasting and/or suitable chemical means, in accordance with local chemical regulations. Rinse thoroughly, to achieve a pH between 8.0 and 11.0. Allow to dry completely. If old concrete has a surface that has deteriorated to an unacceptably rough surface, SealBoss FlexCoat or a mixture of PU Primer and sand should be used as a repair agent for cracks, spalls, bug holes and voids. Upon full cure of the repair agent, prime the entire surface intended for coating.

### Concrete Surface Preparation Reference:

ASTM D4258 - Standard practice for cleaning concrete

ASTM D4259 - Standard practice for abrading concrete

ASTM D4260 - Standard practice for etching concrete

ASTM F1869 - Standard test method for measuring moisture vapor emission rate of concrete

ICRI 03732 - Concrete surface preparation

Neat cement sacking is not an acceptable surface preparation for coatings.

**Plywood:** Plywood should be new or cleaned and sanded. Plywood must be exterior grade plywood, having either tongue-and-groove edges and ends perpendicular to supports. The plywood will be 19/32" or 21/32" thick. Plywood should be installed with a maximum of d" space between the plywood sheets and laid over joists on 16" centers. Plywood sheets must be screwed down securely or nailed with coated annular ring or screw shank nails. If the underside of the joists is covered, the floor/ceiling cavity must be vented to aid in drying and to minimize moisture buildup in the deck structure. Damaged panels will be repaired/replaced before coating. Old plywood must be cleaned and sanded before priming with PU Primer at a rate of 3 gallon per 100 square feet prior to coating application. The only acceptable grade of plywood is APA rated, exterior grade with exterior glue or better. The appearance and physical characteristics of the plywood and grade should be considered.

Note: The above plywood grade is called out in compliance with the American Plywood Association's Standard. Plywood grading which does not reference APA markings may not be a suitable grade. No liability is assumed by SealBoss Corp. for defects in the substrate.

### PROTECTION OF WORK

While work is underway and for 72 hours thereafter, traffic from other trades should be stopped. Material should be stored on plywood or non-asphaltic insulation board. Adjacent surfaces which are not to be coated, such as walls, thresholds, fascias, etc., should be carefully masked before priming and coating. Mask vertical surfaces at the line detailed in the architectural drawings or, if none is shown, mask 4" or more up from the deck. When coatings are applied by spray, caution is necessary, particularly during windy weather, to prevent overspray damage.

### PRIMING

SealBoss Corp. elastomeric coatings frequently require a primer. The preferred primer varies with the substrate as described below. Guide specifications state primer requirements. Product data sheets contain application instructions.

### CONCRETE

**Sealing Concrete:** Most concrete has surface porosity, although it is seldom visible. This porosity develops at the time of placement from various causes including water content, drying rate, aggregate type and troweling action. When elastomeric coatings are placed over concrete, there is a risk that blisters will form from outgassing through surface pores. This risk is minimized by the use of a primer system. PU Primer should be applied on all concrete and dense aggregate structural concrete. Prime entire deck surface and all vertical or sloping surfaces of curbs, cants, parapets, etc., which are to receive coatings, with one coat of PU Primer applied by roller or spray. The coverage rate is about 3 gallons per 100 square feet. Allow polyurethane primers to dry for one hour or more before applying the base coat. Allow epoxy primers to dry until tack free before applying the base coat. Note: Surface temperature is more important than air temperature. The normal minimum surface temperature for application is 50°F (10°C).



### WOOD

SealBoss® Corp. polyurethane coatings are self-priming when applied to new wood construction (primer is not necessary). For optimum adhesion on existing plywood, it is advisable to use PU Primer.

### STEEL

Wire brush or sand steel surfaces until the metal is bright. Solvent wipe after cleaning. Apply PU Primer at the rate of 3 gallon per 100 square feet. Primer should be permitted to dry tack free before applying subsequent coats. This ensures proper adhesion under most conditions. Never apply PU Primer to wet or moist surfaces

### RECOATING SURFACES

Decks to be re-coated should be thoroughly cleaned. When the area intended for coating has completely dried and is free of dirt, dust, oil and other contaminants, apply PU Primer. All coated surfaces require special attention. A test patch should be applied to check for bonding. If adhesion is good, the surface is smooth, and no lifting occurs, apply coating as specified. If adhesion to substrate is poor, and lifting does occur, remove old coating before new coatings are applied.

### EXPANSION JOINTS

#### SEALING OF CRACKS, CONSTRUCTION JOINTS, SUBSTRATE CHANGES, AND FLASHINGS

This step, which follows priming and precedes coating, is the most critical stage in the application of SealBoss® Corp. coatings. Success or failure in application of this system depends largely on how they are treated. Working cracks in concrete are joints or cracks which have moved or will move appreciably, in any or all of the three dimensions, due to thermal changes or vibration. A crack which extends at each end to the edge of the surface, to a building expansion joint or to another working crack may be a working crack. A crack with minute broken fragments along the edge is probably a working crack.

### CONCRETE

To prepare expansion joints, substrate changes, cracks and flashings, apply backer rod if necessary then a polyurethane\* sealant and reinforcement tape, embedded into the sealant, with a stripe coat centered over the crack. The crack must be fully sealed. Any cracks over 1/4" shall be routed to 4" x 4" prior to application of sealant and reinforcing tape.

### SUBSTRATE CHANGES

Use caulking and reinforcement tape, with a stripe coat centered over the crack, backer rod and polyurethane\* sealant as required at changes in substrate material. Reinforcement tape must be embedded into the sealant. It is also required when the substrate changes plane in a valley, or if a crack exists at other changes in plane.

### JOINTS IN PLYWOOD

When a joint must be invisible at close range, filling voids and nail heads is necessary. Any wood-adhering, non-shrinking, firm-setting, non-staining material is satisfactory. An epoxy/100 mesh sand grout may also be used. To prepare plywood joints, flashings and substrate changes, apply a polyurethane\* sealant and reinforcement tape embedded into the sealant with a stripe coat centered over supported joints on the same plane, supported joints at changes in plane, or unsupported joints. Defects in taping and flashing must be corrected prior to proceeding with base coats.

### COATING APPLICATION

SealBoss Corp. materials are one or more components, liquid applied polyurethanes. When properly combined and applied they cure to form tough, high strength elastomeric membranes. All specified quantities are minimums and are on an undiluted basis. No allowances have been made for material waste, uneven surfaces, spillage, material applied thicker than specified, or material left in containers or equipment.

### MIXING

Important: All products must be mixed according to the product data sheets prior to use. Mix two component materials individually before combining. Stir all materials thoroughly before use. Examine both Part- A and Part-B for graininess. Partial containers should not be stored longer than one or two days as exposure to atmospheric moisture induces cure. Keep containers covered whenever possible. For best results, power mix thoroughly for five minutes, scraping sides of container. Best results are obtained by pouring Part-B into Part-A while mixing. Polyethylene or polypropylene mixing containers are recommended, as they can be reused. Cured material is easily stripped out cleanly the following day. If the product requires a catalyst, the best results will be obtained by pouring the catalyst into the product while mixing. Mix only as much material as can be used within the specified pot life.

### COLD WEATHER APPLICATION

During cold weather, special precautions must be taken in applying polyurethanes. These coatings should not be applied to surfaces 50°F (10°C) or colder. Store materials above 65°F (18°F), or warm to above 65°F (18°C) prior to use. If graininess is observed, warm the entire contents of the can to 60°F (16°C), and mix until smooth. Lower temperature and humidity may extend curing time.

### HOT WEATHER APPLICATION

Product data on pot life and cure rate are provided for materials at 75°F (24°C). At temperatures above 75°F (24°C) pot life and cure time will decrease proportionately as temperature and humidity increase. Store materials out of direct sun and mix only the amount that can be applied within the pot life. Refer to product data sheets for further information.



### APPLICATION OF BASECOAT

All specified quantities are on an undiluted basis. Better films are usually produced with less entrapped air when the rate of application is no more than 12 gallons per 100 square feet. However, the recommended rate varies by product and specification. Apply SealBoss Corp. polyurethane in a uniform thickness without skips or holidays. Basecoats can be squeegeed or rolled, depending on job type and size. Allow each coat to dry until tack free and sufficiently cured for foot traffic before applying additional polyurethane coating. A period less than one hour to overnight may be required depending on drying conditions and the particular product used. For a more slip-resistant surface, uniformly broadcast a washed, dry, rounded 16 to 90 mesh silica sand into the wet topcoat at a rate at a rate of 20 lbs/100 sq. ft. or as required to achieve a slip-resistant finish. Slip resistance will vary depending on the coating thickness. Extend each coat over cants and up vertical surfaces of pads, curbs, walls and parapets. The top of curbs and equipment pads shall be similarly coated. In the case of walls and parapets, extend coating to the point where counter flashings enter the masonry. Where no counter flashing is specified, hold the base coats just short of the termination line at the edge of the deck to avoid seeping under masking tape or spilling on adjacent unprotected surfaces. If the entire job cannot be carried through to completion without interruption, the interruption should occur after the first coat. This will provide protection for the system. Coated surfaces must be clean and dry before work resumes.

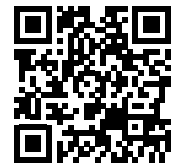
### APPLICATION OF TOPCOAT

Inspect the surface for damage prior to the application of topcoat. Any surface damage must be repaired by replacing base coat so that a continuous membrane in substantially uniform thickness covers the entire surface prior to topcoat application. While careful color matching procedures are used, different batches of polyurethane may vary slightly in hue. This variation will be too slight to be perceptible if changes are made at natural breaks in the surface. Intermixing of batches may be necessary or desirable to ensure consistency in topcoat color.

### CAUTION

Excessively heavy applications of polyurethane can cause pigment separation during drying, resulting in a blotched color. Uniform application at the specified coverage rate is important to provide proper results. Remove masking tape at edges of coating area as soon as the final coat of polyurethane is applied. By removing the tape while the coating is wet, it will not be necessary to cut it off and will avoid damage to the edge of the coating. Any seepage under the tape on rough surfaces can be wiped off with thinner while wet.

The following conditions must not be coated with SealBoss® Corp. deck coating systems: on grade or below grade slabs, split slabs with buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, suspended pool decks, swimming pools, magnesite or lightweight concrete, asphalt surfaces or asphalt overlays. Floor hardeners may adversely affect the adhesion of the coating. SealBoss® Corp. coating systems should not be subjected to rising water tables or hydrostatic pressure on slab-on-grade applications. If there is a question regarding a substrate, please contact a SealBoss® Corp. representative. Approved sealants are: SealBoss® 6500 QuickFix, SealBoss® 6500 HM QuickFix, and SealBoss® FlexCoat.



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