



## Deck Pro-V55

### ELASTOMERIC URETHANE WATERPROOFING SYSTEM, VEHICULAR TRAFFIC

#### Application/Specification Guide

#### SYSTEM DESCRIPTION

**1.01 DECK Pro-V55 is a liquid applied, high solids, water catalyzed polyurethane, waterproof Parking Deck System.**

**A.** The system utilizes a primer, one coat of a water induced urethane basecoat, one coat of an aromatic urethane intermediate coat and one coat of an aromatic or optional aliphatic urethane topcoat. DECK Pro-V55 can be applied to protect surfaces against spalling, freeze-thaw damage and chemicals commonly encountered on these surfaces. It is an elastomeric system designed to expand and contract with normal structural movements. It will not soften in heat nor become brittle in cold. DECK Pro-V55 is a proven waterproofing system primarily used on plywood, concrete and metal surfaces. Installed and maintained properly, DECK Pro-V55 decking system will ensure years of service.

#### 1.02 FEATURES

- Seamless
- Elastomeric
- Non-Gassing
- Fast-Curing
- Recoatable
- Good Weatherability
- Meets CA VOC Regulations

#### 1.03 TYPICAL USES

- Parking Decks
- Balconies
- Over Occupied Space
- Sun Decks
- Patios
- Roof Decks

#### 1.04 PRODUCT INSTRUCTION

**A.** For complete information associated with the application of DECK Pro-V55, refer to the general guidelines section of the BESSERN catalog which describes the surface preparation, job conditions, finishing details and other necessary information.

**B.** All products/materials to be used on this system should be purchased from BESSERN Building Products (**BESSERN**) or its distributors or approved by BESSERN. For details on individual product, please refer to Product Technical Data Sheet.

#### APPLICATION

##### 2.01 Surface Preparation

**A.** Surfaces shall be broom clean, dry, sound and free of voids, bugholes, rockpockets, honey-combs, protrusions, excessive roughness, foreign matter, frost, ice and other contaminants which may inhibit application or performance of the waterproofing coating system.

**B.** Use suitable abrasive methods, remove residue of form release, curing compound, chemical retarders and other surface treatments, mortar smear, saw-cutting residue, mill scale, rust, loose material and other contaminants from concrete, masonry and ferrous metal surfaces to receive the work of this section.

**C.** Concrete: Where work of this Section will be applied to concrete, provide surfaces that are smooth with finish equal to one that is light steel troweled followed by a fine hair broom.

**D.** Decks:

1. Slope deck surfaces to drains that have flanges at coating level which are flush with deck surfaces.

2. Rigidly install pipe, vents and other surface protrusions, properly flash them, and cover to prevent entry of coating materials.

**E.** Metal flashings: Where metal flashings are substrate to waterproofing coating, set the flashings in continuous bedding bead of urethane sealant; install sealant S-bead between metal laps and mechanically fasten to substrate along leading edges at every 4" on center, staggered linearly, to lay flat without fishmouths.

**F.** Joints: Configuration shall be consistent with this Section and with all other requirements of the Contract Documents.

**G.** Check area of application to ensure that it conforms to the substrate requirements, as stated in the general guidelines section.

##### 2.02 Repairs

**A.** Apply a polyurethane caulk or DECK Pro-55BC mixed material over all joints, cracks and flashing. DECK Pro-55BC Mixed Material is a mixture of 4 parts DECK Pro-55BC and 1 part of water by volume.

**B.** Bridge the saw joints and small cracks, using DECK Pro-55BC mixed material as a caulking compound for an appreciably shorter cure time over conventional polyurethane caulks.

**C.** Allow the surface to cure for 1 to 2 hours.

### 2.03 Priming

**A.** Prime surface with DECK Pro Primer-55 at a rate of 1 gallon (mixture of Part-A & Part-B)/ 300 sq. ft. (0.14 liters/m<sup>2</sup>). Apply using a brush or phenolic core roller. This will result in 3 dry mils (76 microns) of coating. **B.** Allow Deck Pro Primer-55 to become thumbprint tacky before proceeding to Coating First Application.

**C.** Metal flashings should only be primed with DECK Pro Primer-55. All metal flashings should be mechanically abraded with an angle grinder and wire brush cup, followed by a rag with xylene solvent wipe to remove loose particles or oil film.

### 2.04 Coating Application

**A.** Apply DECK Pro-55BC mixed material to substrate at a rate of 2.5 gallons/100 sq. ft. (0.8 liters/m<sup>2</sup>). Application will require more or less material depending on substrate conditions.

**B.** Use a notched trowel or squeegee to spread DECK Pro-55BC mixed material evenly over the entire deck resulting in a min. 35 ± 2 dry mils (889 ± 50 microns) thick membrane.

**C.** When DECK Pro-55BC mixed material begins to slightly gel, broadcast 20 mesh silica sand. The amount of sand used will vary. (Normal usage is 18-20 lbs of sand /100 sq. ft.)

**D.** When the DECK Pro-55BC mixed material is stiff enough to support the weight of the installer without damaging the coating, or when coating is dry (approximately 2-3hours), remove loose aggregate.

### 2.05 Intermediate Coat Application

**A.** Apply desired color of DECK PRO-55ART or DECK PRO-55 ALT at a rate of 1 gallon/100 sq. ft. (0.4 liters/m<sup>2</sup>). This coat will result in an additional 11 ± 2 dry mils (279 ± 50 microns) thick coating. Broadcast additional aggregate as needed to cover any bare or insufficient aggregate placement.

**B.** At 70°F and 50% relative humidity allow a minimum of 16 and a maximum of 48 hours for topcoat to cure.

### 2.06 Ramps, Turn Radii Application

**A.** Over ramps, turn radii, and other heavy traffic areas only, apply desired color of DECK PRO-55ART or DECK PRO-55ALT at a rate of 1 gallon/100 sq. ft. (0.4 liters/m<sup>2</sup>). This coat will result in an additional 11 ± 2 dry mils (279 ± 50 microns) thick coating. Broadcast additional aggregate as needed to cover any bare or insufficient aggregate placement.

**B.** At 70°F and 50% relative humidity allow a minimum of 16 and a maximum of 48 hours for topcoat to cure.

### 2.07 Drive / Turning Lanes Topcoat Application

**A.** Apply desired top coat of DECK PRO-55ART or DECK PRO-55ALT at a rate of 1 gallon/125 sq. ft. (0.31 liters/m<sup>2</sup>). This coat will result in an additional minimum 9 ± 2 dry mils (228 ± 50 microns) thick coating.

#### **B.** OPTIONAL FAST CURE

Topcoat: The addition of DECK Pro Top Coat Accelerator will shorten cure time to 6 to 8 hours for each coat.

### 2.08 FINISHED SYSTEM

**A.** When applied as directed above, DECK PRO-V55 decking system will provide min. 55 ± 2 dry mils with single topcoat, exclusive of aggregate, of superior waterproofing protection.

### 2.09 LIMITATIONS

#### **A. Concrete:**

1) The following conditions should not be coated with DECK Pro deck coating systems without prior consultation with BESSERN: 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, gypsum lightweight concrete, asphalt surfaces, asphalt overlays and where chained or studded tires may be used.

2) Concrete must exhibit 3000 psi minimum strength. 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 broom finish, 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.

3) New concrete must be cured for 14 days minimum or desired 28 days.

4) Concrete cleaning (see general guidelines).

**B.** DECK Pro Decking Systems will not withstand rising water tables or hydrostatic pressure on slab-on-grade decks.

**C.** Uncured materials are sensitive to heat and moisture.

**D.** A continuous coating application should ensure a deck with no lines or streaks.

**E.** The substrate must be structurally sound and sloped for proper drainage.

**F.** BESSERN assumes no liability for substrate defects.

### 2.10 Job Completion

**A.** Equipment should be cleaned with an urethane grade environmentally safe solvent, as permitted under local regulations, immediately after use.

**B.** Field visits by BESSERN personnel are for the purpose of making technical recommendations only and are not to supervise or provide quality control on the job site.

**WARNING: The products in this system contain Isocyanates, Solvent, Epoxy Resin and Curatives.**

### WARRANTIES

BESSERN warrants that its product shall be in accordance with the specifications published in the current product data sheet. BESSERN will, in the event any of its products fail to meet their published specifications, replace those products proved to be defective.

BESSERN shall not be responsible for any incidental or consequential damages due to the breach of its warranties. Notwithstanding the foregoing, BESSERN's sole liability hereunder shall not exceed the cost of the defective product originally purchased.

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The user must determine if the product is suited for the intended use and the user must bear the risks and liabilities associated with it.

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