

# ICC-ES Evaluation Report

**ESR-2785**

Reissued March 2024

This report also contains:


- CBC Supplement

Subject to renewal March 2026

- LABC Supplement

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<p><b>DIVISION: 07 00 00— THERMAL AND MOISTURE PROTECTION</b></p> <p><b>Section: 07 14 00— Fluid-Applied Waterproofing</b></p> <p><b>Section: 07 18 13— Pedestrian Traffic Coatings</b></p> <p><b>DIVISION: 09 00 00— FINISHES</b></p> <p><b>Section: 09 30 00—Tiling</b></p>	<p><b>REPORT HOLDER: POLYCOAT PRODUCTS</b></p> <p><b>ADDITIONAL LISTEE:  POLY-TUFF SYSTEMS INTERNATIONAL</b></p> <p><b>BESSERN BUILDING PRODUCTS, LLC</b></p>	<p><b>EVALUATION SUBJECT: POLYCOAT PRODUCTS WALKING DECK SYSTEM, POLYCOAT- AQUATIGHT® UNDERLAYMENT WATERPROOFING SYSTEM, POLYTUFF SYSTEMS INTERNATIONAL WALKING DECK SYSTEM, POLYTUFF SYSTEMS INTERNATIONAL FLEXIDECK® P-TW UNDERLAYMENT WATERPROOFING SYSTEM, BESSERN BUILDING PRODUCTS ENDURIT DECK PRO WALKING DECK SYSTEM AND BESSERN BUILDING PRODUCTS ENDURIT DECK PRO- UTM UNDERLAYMENT WATERPROOFING SYSTEM</b></p>	
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## 1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021, 2018, 2015, 2012 and 2009 [International Building Code® \(IBC\)](#)
- 2021, 2018, 2015, 2012 and 2009 [International Residential Code® \(IRC\)](#)
- 2021, 2018, 2015, 2012 and 2009 [International Plumbing Code® \(IPC\)](#)
- 2021, 2018, 2015, 2012, 2009 and 2006 IAPMO Uniform Plumbing Code™ (IAPMO UPC)

For evaluation for compliance with codes adopted by Los Angeles Department of Building and Safety (LADBS), see [ESR-2785 LABC and LARC Supplement](#).

Properties evaluated:

- Waterproofing
- Durability

- Wind resistance
- Fire classification
- Fire-resistance-rated construction

## 2.0 USES

The walking deck systems described in [Tables 1, 2](#) and [3](#) are for use directly over plywood and concrete substrates. When installed in accordance with this report, the walking decks comply with IBC Section 1505 and IRC Section R902 as Class A or Class B roof coverings.

The Polycoat-Aquatight®, Flexideck® P-TW and ENDURIT DECK Pro-UTM Underlayment Systems are liquid-applied waterproofing systems that cure to a monolithic, elastomeric membrane for use as an underlayment for ceramic tile. The systems are also used as shower sub-pan lining materials in accordance with the IPC and the IAMPO UPC.

## 3.0 DESCRIPTION

### 3.1 Materials:

The shelf life of all liquid materials and components described in this report is one year from the date of manufacture, when the components are stored at 75°F (24°C) in factory-sealed containers.

#### 3.1.1 Primers:

**3.1.1.1 PolyPrime 21 Primer:** This is a two-component, 100 percent solids, epoxy primer available in 3- and 15-gallon (11.3 and 56.8 L) kits. The A-to-B mixing ratio of the two components is 2-to-1 by volume.

**3.1.1.2 PolyPrime 2180 Primer:** This is a two-component, solvent-based epoxy primer available in 2- and 10-gallon (7.6 and 37.8 L) kits. The A-to-B mixing ratio of the two components is 1-to-1 by volume.

**3.1.1.3 PolyPrime U22 Primer:** This is a two-component, solvent-free polyurethane primer available in 2- and 10-gallon (7.6 and 37.8 L) kits. The A-to-B mixing ratio of the two components is 1-to 1-by volume.

**3.1.1.4 PolyPrime U25 Primer:** This is a two-component, solvent-based polyurethane primer available in 2- and 10-gallon (7.6 and 37.8 L) kits. The A-to-B mixing ratio of the two components is 1-to 1-by volume.

**3.1.1.5 Enviro-Grip® EP #1:** This is a two-component, 100 percent solids, epoxy primer available in 3- and 15-gallon (11.3 and 56.8 L) kits. The A-to-B mixing ratio of the two components is 2-to 1-by volume.

**3.1.1.6 Enviro-Grip® EP #2:** This is a two-component, solvent-based epoxy primer available in 2- and 10-gallon (7.6 and 37.8 L) kits. The A-to-B mixing ratio of the two components is 1-to-1 by volume.

**3.1.1.7 Enviro-Grip® PU #3:** This is a two-component, solvent-free polyurethane primer available in 2- and 10-gallon (7.6 and 37.8 L) kits. The A-to-B mixing ratio of the two components is 1-to 1-by volume.

**3.1.1.8 Enviro-Grip® PU #4:** This is a two-component, solvent-based polyurethane primer available in 2- and 10-gallon (7.6 and 37.8 L) kits. The A-to-B mixing ratio of the two components is 1-to-1 by volume.

**3.1.1.9 ENDURIT DECK Pro-Primer 55:** This is a two-component, 100 percent solids, epoxy primer available in 3- and 15-gallon (11.3 and 56.8 L) kits. The A-to-B mixing ratio of the two components is 2-to 1-by volume.

**3.1.1.10 ENDURIT DECK Pro-Primer 60:** This is a two-component, solvent-free polyurethane primer available in 2- and 10-gallon (7.6 and 37.8 L) kits. The A-to-B mixing ratio of the two components is 1-to 1-by volume.

#### 3.1.2 Membranes:

**3.1.2.1 PolyKarpel® SL-660:** PolyKarpel® SL-660 is a solvent-free, water-curable, polyurethane mixture that is mixed with water at a ratio of 5 gallons (18.9 L) of mixture to 1.25 gallons (4.73 L) of water to produce the PolyKarpel® SL-660 membrane. It is available in 5-gallon (18.9 L) pails.

**3.1.2.2 PolyCoat PC-440:** PolyCoat PC-440 is a single-component, polyurethane elastomeric mixture that is applied, without dilution, as the base membrane. It is available in 5-gallon (18.9 L) pails and 55-gallon (208.2 L) drums.

**3.1.2.3 PolyCoat PC-440 SF:** PolyCoat PC-440 SF is a single-component, solvent-free, polyurethane elastomeric mixture that is applied, without dilution, as the base membrane. It is available in 5-gallon (18.9 L) pails.

**3.1.2.4 P-Tuff® Base:** P-Tuff® Base is a single-component, water-catalyzed, polyurethane elastomeric mixture that is applied, without dilution, as the base membrane. This membrane material is also used as a

caulking material to fill cracks and joints in the substrate. It is available as P-Tuff® SLV Solvenated Base Membrane or, solvent-free, as P-Tuff® Classic or P-Tuff® Flex. P-Tuff® Base Membrane is mixed with water at a mixing ratio of 2.5 gallons (9.5 L) of P-Tuff® Base Membrane material to 2.5 quarts (2.4 L) of water, to yield a material called P-Tuff® Mixed Membrane Material (P-Tuff® MMM). The P-Tuff® products are available in 5-gallon (18.9 L) containers.

**3.1.2.5 ENDURIT DECK Pro-55 BC:** ENDURIT DECK Pro-55 BC is a single-component, water-catalyzed, polyurethane elastomeric mixture that is applied, without dilution, as the base membrane. This membrane material is also used as a caulking material to fill cracks and joints in the substrate. It is available, solvent-free, as ENDURIT DECK Pro-55 BC Classic. ENDURIT DECK Pro-55 BC Base Membrane is mixed with water at a mixing ratio of 2.5 gallons (9.5 L) of ENDURIT DECK Pro-55 BC Base Membrane material to 2.5 quarts (2.4 L) of water, to yield a material called ENDURIT DECK Pro-55 BC Mixed Membrane Material (ENDURIT DECK Pro-55 BC MMM). The ENDURIT DECK Pro-55 BC products are available in 5-gallon (18.9 L) containers.

### 3.1.3 Surface-protection Coatings:

**3.1.3.1 PolyGlaze 400 FR:** This is a two-part, moisture-cured, aliphatic polyester polyurethane coating. It is available in 6-gallon (22.7 L) kits. The powder-to-liquid mixing ratio is 1-to-5 by volume.

**3.1.3.2 PolyGlaze 400:** This is a single-component, moisture-cured, aliphatic polyester polyurethane coating. It is available in 1- and 5-gallon (3.8 and 18.9 L) pails.

**3.1.3.3 Polycoat-Staingard 1110:** This is a two-component, liquid-applied, aliphatic polyester polyurethane coating. It is available in 1- and 5-gallon (3.8 and 18.9 L) kits.

**3.1.3.4 Poly-I-Gard® 246:** This is a single-component, moisture-cured, urethane basecoat and surface-protection coating. It is available in 5-gallon (18.9 L) pails and 55-gallon (208.2 L) drums. The Poly-I-Gard® 246 is used with an accelerator as described in Section 3.1.4.3.

**3.1.3.5 Poly-I-Gard® 246 SF:** This is a single-component, moisture-cured, solvent-free, urethane basecoat and surface protection coating. It is available in 5-gallon (18.9 L) pails and 55-gallon (208.2 L) drums. The Poly-I-Gard® 246 SF is used with an accelerator as described in Section 3.1.4.3.

**3.1.3.6 Topshield® EST:** This is a single-component, moisture-cured, aliphatic polyester polyurethane coating. It is available in 1- and 5-gallon (3.8 and 18.9 L) pails.

**3.1.3.7 Topshield® EST-FR:** This is a two-part, moisture-cured, aliphatic polyester polyurethane coating. It is available in 6-gallon (22.7 L) kits. The powder-to-liquid mixing ratio is 1-to-5 by volume.

**3.1.3.8 ENDURIT DECK Pro-55 ALT:** This is a single-component, moisture-cured, aliphatic polyester polyurethane coating. It is available in 1- and 5-gallon (3.8 and 18.9 L) pails.

**3.1.3.9 ENDURIT DECK Pro-55 ALT FR:** This is a two-part, moisture-cured, aliphatic polyester polyurethane coating. It is available in 6-gallon (22.7 L) kits. The powder-to-liquid mixing ratio is 1-to-5 by volume.

### 3.1.4 Accelerators, Hardeners, and Catalysts:

**3.1.4.1 PolyCoat PC-50 Thickener/Accelerator:** This is a proprietary liquid catalyst used to accelerate and thicken the PolyCoat PC-440 and PolyCoat PC-440 SF elastomeric waterproofing membranes. Thickened PolyCoat PC-440 and PolyCoat PC-440 SF membranes may be used as caulking pastes to fill cracks. PolyCoat PC-50 is available in 1-quart (0.95 L) and 1-gallon (3.8 L) containers. The mixing ratio is 1 quart (0.95 L) of PolyCoat PC-50 to 5 gallons (18.9 L) of base membrane.

**3.1.4.2 PolyCoat PolyGlaze Hardener:** This is a liquid accelerator used in the PolyGlaze 400 FR, PolyGlaze 400, Poly-I-Gard® 246, and Poly-I-Gard® 246 SF surface-protection coatings. It is available in 1-quart (0.95 L) and 1-gallon (3.6 L) containers. Maximum mixing ratio is 1 quart (0.95 L) of hardener to 5 gallons (18.9 L) of surface-protection coatings.

**3.1.4.3 Poly-I-Gard® 246 Accelerator:** This accelerator must be added at a rate of 8 ounces (0.24 L) per 5 gallons (18.9 L) of Poly-I-Gard® 246 or Poly-I-Gard® 246 SF.

**3.1.4.4 Quick-N-Cure Catalyst:** This is a proprietary, organometallic catalyst used in the PolyKarpel® SL-660 base membrane. The mixing ratio is one to three vials (20 to 60 grams) of Quick-N-Cure to 5 gallons (18.9 L) of PolyKarpel® SL-660 base membrane.

**3.1.4.5 Topshield® Accelerator:** This is a liquid accelerator used in the Topshield® EST and Topshield® EST-FR surface-protection coatings. The maximum mixing ratio is 1 quart (0.95 L) of the accelerator to 5

gallons (18.9 L) of surface-protection coating. The accelerator is available in 1-quart (0.95 L) and 1-gallon (3.8 L) containers.

**3.1.4.6 P-Tuff® Catalyst:** The P-Tuff® Catalyst is a proprietary, organometallic catalyst used in the P-Tuff® Base Membrane material. The maximum mixing ratio is three vials (60 grams) of catalyst to 5 gallons (18.9 L) of P-Tuff® Base Membrane material.

**3.1.4.7 ENDURIT DECK Pro-55 BC Catalyst:** The ENDURIT DECK Pro-55 BC Catalyst is a proprietary, organometallic catalyst used in the ENDURIT DECK Pro-55 BC Base Membrane material. The maximum mixing ratio is three vials (60 grams) of catalyst to 5 gallons (18.9 L) of ENDURIT DECK Pro-55 BC Base Membrane material.

**3.1.5 Fiberglass Straight Jacket Tape:** This fiberglass tape is available in rolls 4 inches (102 mm) wide by 150 feet (45.7 m) long and is used as reinforcement over joints and cracks in plywood.

**3.1.6 Nonwoven Polyester Tape:** This nonwoven tape is available in rolls 3 inches (76 mm) wide by 300 feet (91.4 m) long and is used as reinforcement over joints and cracks in concrete.

### 3.1.7 Surface Texture:

**3.1.7.1 Rounded Sand:** This is washed, dry, rounded crystal silica sand, having a maximum 16 or 20 mesh size and a minimum hardness of 6.5 Moh, used for walking decks.

**3.1.7.2 Angular Sand:** This is washed, dry, angular, cracked crystal silica sand, 16 mesh (0.0469 in, 1.19 mm) and with a minimum hardness of 6.5 Moh, used under ceramic tiles and shower pans.

**3.1.7.3 Rubber Granules:** These 14-30 mesh rubber granules are used with the PolyCoat and Polytuff assemblies.

### 3.2 Substrates:

**3.2.1 Plywood:** Depending on the PolyCoat and Polytuff materials applied to the substrate, plywood substrates must be minimum of  $1\frac{9}{32}$ -,  $\frac{5}{8}$ -,  $2\frac{1}{32}$ - or  $\frac{3}{4}$ - inch-thick (15.1, 15.9, 16.7 or 19.1mm) exterior-grade plywood with tongue-and-groove edges or blocked edges, complying with U.S. Department of Commerce PS-1 or PS-2. See [Tables 1](#) through and [3](#) for plywood thickness requirements.

**3.2.2 Concrete:** Concrete substrates must comply with the requirements of the applicable code.

## 4.0 INSTALLATION

### 4.1 General:

The systems must be installed in accordance with the manufacturer's published installation instructions, the applicable code and this report. The manufacturer's installation instructions and this report must be available on the jobsite at all times during installation.

### 4.2 Walking Decks:

#### 4.2.1 Preparation of Substrates:

**4.2.1.1 General:** Installation is limited to when the weather is dry and the ambient temperature is above 45°F (7.2°C). Materials must not be applied if precipitation is occurring or expected. Concrete or plywood substrates must be free of all contamination that may impair proper bonding. Substrates must be sloped a minimum of  $\frac{1}{4}$  inch (6.4 mm) per foot (305 mm) (2.1 percent) for drainage, and must be primed with the applicable primer specified in [Table 1](#) prior to application of the membrane and surface-protection materials. New plywood substrates do not require primer.

**4.2.1.2 Concrete:** Concrete substrates must be clean, dry and free of standing water. All joints and cracks must be caulked flush with substrate, and all high spots cut or ground off, to provide a smooth, even surface. Before the material is applied, the substrate is swept or blown clean to remove dust or foreign material. Paint, grease and oil must be removed either by grinding or shot-blasting, and new concrete surfaces must be shot-blasted. Large areas to be covered must have control joints at intervals not to exceed 20 feet (6096 mm) on center.

Control joints are cut in accordance with the applicable concrete design standard and are then caulked.

**4.2.1.3 Plywood:** Plywood must be installed in accordance with the applicable code. The plywood surface must be clean, dry and free of all foreign materials such as paint, grease, oil and dust. Cracks in the plywood, and all panel butt joints, must be sealed using a polyurethane caulking compound.

**4.2.2 Installation of Flashing:** All door thresholds, jambs, posts, walls, scuppers and fascia must have metal flashing in accordance with the applicable code. Flashing must comply with IBC Section 1503.2 or IRC Section R903.2, as applicable.

**4.2.3 Application of Systems:** Application of systems described in this report must comply with the manufacturer's published installation instructions, this report and the applicable code.

**4.2.3.1 Polycoat System:** System details and application rates of products must be as specified in [Table 1](#). For additional details on system installation, refer to Polycoat's Technical Data Sheets and System Details.

**4.2.3.2 Polytuff System:** System details and application rates of products must be as specified in [Table 2](#). For additional details on system installation, refer to Polytuff's Technical Data Sheets and System Details.

**4.2.3.3 ENDURIT DECK Pro Walking Deck System:** System details and application rates of products must be as specified in [Table 3](#). For additional details on system installation, refer to BESSERN Building Products' Technical Data Sheets and System Details.

**4.2.4 Method of Repair:** Damaged areas are permitted to be repaired by cutting or grinding out an area extending 6 inches (152 mm) beyond the damage; cleaning with a urethane-active solvent; and applying the primer, base membrane, and topcoats in the same manner as described in the published installation instructions and this report.

**4.2.5 One-hour Fire-resistance-rated Construction:** The Polydeck® 355, Polydeck® 400, Polydeck® 600, Polydeck® 610, Flexideck® P-A, Flexideck® P-B, ENDURIT DECK Pro-WM 70 S and ENDURIT DECK Pro-WM 70 R walking deck systems, as described in [Tables 1](#), [2](#) and [3](#), are permitted to be substituted for the double wood floor described in Item 13 of Table 721.1(3) of the IBC [Table 720.1(3) of the 2009 IBC], when installed in accordance with this report over <sup>3</sup>/<sub>4</sub>-inch-thick (19 mm), Exterior 1 plywood supported by minimum 2-by-10 joists spaced a maximum of 16 inches (406 mm) on center.

**4.2.6 Roof Covering Fire Classification:** When installed in accordance with this report, the assemblies have the fire classifications noted in [Tables 1](#), [2](#) and [3](#).

**4.2.7 Wind Resistance:** The maximum allowable wind resistance pressure is limited by the capacity of the roof deck construction. The roof deck must be designed to withstand wind pressures in accordance with IBC Section 1609.5.1.

**4.3 Ceramic Tile Underlayment and Shower Sub-pan Lining Polycoat-Aquatight®, Flexideck® P-TW and ENDURIT DECK Pro-UTM Underlayment Systems:**

**4.3.1 Preparation of Substrates:** See Section 4.2.1.

**4.3.2 Application of Systems:** See Section 4.2.3 and [Tables 1](#) through [3](#).

**4.3.3 Method of Repair:** See Section 4.2.4.

## 5.0 CONDITIONS OF USE:

The products described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** Installation must comply with this report, the manufacturer's published installation instructions and the applicable code. If there is a conflict between the manufacturer's published installation instructions and this report, this report governs.
- 5.2** The products are manufactured in Santa Fe Springs, California and Bedford, Texas under a quality control program with inspections by ICC Evaluation Service, LLC.

## 6.0 EVIDENCE SUBMITTED

- 6.1 Polycoat, Polytuff and ENDURIT DECK Pro Walking Deck Systems:** Data in accordance with the [ICC-ES Acceptance Criteria for Walking Decks \(AC39\)](#), dated October 2013 (editorially revised November 2020).
- 6.2 Polycoat-Aquatight®, Flexideck® P-TW and ENDURIT DECK Pro-UTM Underlayment Waterproofing Systems:** Data in accordance with the [ICC-ES Acceptance Criteria for Waterproof Membranes for Flooring and Shower Lining \(AC115\)](#), dated June 2003 (editorially revised February 2021).

## 7.0 IDENTIFICATION

- 7.1** The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-2785) along with the name, registered trademark, or registered logo of the report holder (Polycoat Products) or listee (Poly-Tuff International or BESSERN Building Products) must be included in the product label.
- 7.2** In addition, individual containers of each component bear a label indicating the product designation, the batch number, and shelf life information in the form of an expiration date.

7.3 The report holder's contact information is the following:

**POLYCOAT PRODUCTS**  
14722 SPRING AVENUE  
SANTA FE SPRINGS, CALIFORNIA 90670  
(562) 802-8834  
[www.polycoatusa.com](http://www.polycoatusa.com)  
[sales@polycoatusa.com](mailto:sales@polycoatusa.com)

7.4 The Additional Listees' contact information is the following:

**POLY-TUFF SYSTEMS INTERNATIONAL**  
8550 WEST DESERT INN ROAD, SUITE 102-451  
LAS VEGAS, NEVADA 89117

**BESSERN BUILDING PRODUCTS**  
1400 NORTH PROVIDENCE ROAD  
SUITE 302  
MEDIA, PENNSYLVANIA 19063  
(484) 234-5035  
<https://www.bessern.com>  
[info@bessern.com](mailto:info@bessern.com)



TABLE 1—POLYCOAT PRODUCTS SYSTEMS

Item No.	System	COMPONENTS					ROOF CLASSIFICATION		
		Treatment of Joints/Cracks in Substrate	Primer	Base Membrane	Surfacing Material	Finish Coat	Substrate	Max. Slope (inch per horizontal foot)	Fire Classification
1.1	Polydeck 400	PC-440 or PC-440 SF combined with PC-50 as caulking paste and Straight Jacket tape for reinforcement	Polyprime 21, 2180, U22, or U25 1 gal. (mixture of Side A & Side B) per 300 sq. ft. Minimum Dry Mil: 3	First Coat: PC-440 or PC-440 SF 3 gal. per 100 sq. ft. Minimum Dry Mil: 33	Rounded Sand 100 lbs. per 100 sq. ft.	First Coat: Polyglaze 400 FR 1¼ gal. per 100 sq. ft. Minimum Dry Mil: 13	¾ or 21/32-inch Plywood	¼	A
				Second Coat: PC-440 or PC-440 SF 1½ gal. per 100 sq. ft. Minimum Dry Mil: 16		Second Coat: PolyGlaze 400 ¾ gal. per 100 sq. ft. Minimum Dry Mil: 8	Concrete	¼	A
1.2	Polydeck 410	Same as Item 1.1	Same as Item 1.1	First Coat: PC-440 or PC-440 SF 2½ gal. per 100 sq. ft. Minimum Dry Mil: 27	Same as Item 1.1	First Coat: Polyglaze 400 FR 1¼ gal. per 100 sq. ft. Minimum Dry Mil: 13	¾ or 21/32-inch Plywood	¼	A
				Second Coat: PC-440 or PC-440 SF 1½ gal. per 100 sq. ft. Minimum Dry Mil: 16		Second Coat: Polycoat-Staingard 1110 ½ gal. per 100 sq. ft. Minimum Dry Mil: 5	Concrete	¼	A
1.3	Polydeck 355	Same as Item 1.1	Same as Item 1.1	First Coat: PC-440 or PC-440 SF 2 gal. per 100 sq. ft. Minimum Dry Mil: 22	Same as Item 1.1	First Coat: Polyglaze 400 ¾ gal. per 100 sq. ft. Minimum Dry Mil: 8	5/8 or 19/32-inch Plywood	¼	B
				Second Coat: PC-440 or PC-440 SF 1 gal. per 100 sq. ft. Minimum Dry Mil: 11		Second Coat: PolyGlaze 400 ¾ gal. per 100 sq. ft. Minimum Dry Mil: 8	Concrete	¼	A
1.4	Polydeck 365	Same as Item 1.1	Same as Item 1.1	Same as Item 1.3	Same as Item 1.1	First Coat: Polycoat-Staingard 1110 ¾ gal. per 100 sq. ft. Minimum Dry Mil: 8	5/8 or 19/32-inch Plywood	¼	B
							Concrete	¼	A
1.5	PolyKarpel® 600	PolyKarpel SL-660 Mixture as a caulking paste and Straight Jacket tape for reinforcement	Same as Item 1.1	First Coat: PolyKarpel® SL-660 3 gal. per 100 sq. ft. Minimum Dry Mil: 36	Rounded Sand 100 lbs. per 100 sq. ft.	First Coat: Polyglaze 400 FR 1¼ gal. per 100 sq. ft. Minimum Dry Mil: 13	¾ or 21/32-inch Plywood	¼	A
				Second Coat: PolyKarpel® SL-660 1 gal. per 100 sq. ft. Minimum Dry Mil: 12		Second Coat: Polyglaze 400 ¾ gal. per 100 sq. ft. Minimum Dry Mil: 8	Concrete	¼	A
1.6	PolyKarpel® 610	Same as Item 1.5	Same as Item 1.1	First Coat: PolyKarpel® SL-660 4 gal. per 100 sq. ft. Minimum Dry Mil: 48	Rubber Granules 10 lbs. per 100 sq. ft.	First Coat: Polyglaze 400 FR 1¼ gal. per 100 sq. ft. Minimum Dry Mil: 13	5/8 or 19/32-inch Plywood	¼	B
						Second Coat: Polyglaze 400 ¾ gal. per 100 sq. ft. Minimum Dry Mil: 8	Concrete	¼	A
1.7	Poly-I-Gard® 246	Same as Item 1.1	Polyprime 21 or 2180 1 gal. (mixture of Side A & Side B) per 300 sq. ft. Minimum Dry Mil: 3	First Coat: Poly-I-Gard® 246 1¼ gal. per 100 sq. ft. Minimum Dry Mil: 14 Optional coat: Poly-I-Gard® 246 1 gal. per 100 sq. ft. Broadcast Rounded Sand 10 lbs. per 100 sq. ft. Second Coat: Poly-I-Gard® 246 1 gal. per 100 sq. ft. Minimum Dry Mil: 11	Rounded Sand 10 lbs. per 100 sq. ft.	Final Coat: Poly-I-Gard® 246 1¼ gal. per 100 sq. ft. Minimum Dry Mil: 14	Concrete	¼	A
1.8	Poly-I-Gard® 246 SF	Same as Item 1.1	Polyprime 21 (mixture of Side A & Side B) per 300 sq. ft. Minimum Dry Mil: 3	First Coat: Poly-I-Gard® 246 SF 1 gal. per 100 sq. ft. Minimum Dry Mil: 16 Optional coat: Poly-I-Gard® 246 SF 1 gal. per 100 sq. ft. Broadcast Rounded Sand 10 lbs. per 100 sq. ft. Second Coat: Poly-I-Gard® 246 SF 1 gal. per 100 sq. ft. Minimum Dry Mil: 16	Rounded Sand 10 lbs. per 100 sq. ft.	Final Coat: Poly-I-Gard® 246 SF 1 gal. per 100 sq. ft. Minimum Dry Mil: 16	Concrete	¼	A
1.9	Polycoat-Aquatight® Ceramic Tile Underlayment	Same as Item 1.1	Polyprime 21 or Polyprime U22 1 gal. (mixture of Side A & Side B) per 300 sq. ft. Minimum Dry Mil: 3	First Coat: PC-440 SF 3 gal. per 100 sq. ft. Minimum Dry Mil: 48 Second Coat: PC-440 SF 1½ gal. per 100 sq. ft. Minimum Dry Mil: 24	Angular Cracked Silica Sand till refusal	For Floors: Ceramic tile or dimensional stone For Showers: shower lining	N/A	N/A	N/A

For SI: 1 gallon = 3.8 L, 1 sq. ft. = 0.093 sq. meters, 1 lb. = 4.45 N, 1 inch = 25.4 mm.

TABLE 2—POLYTUFF SYSTEMS INTERNATIONAL SYSTEMS

Item No.	System	COMPONENTS					ROOF CLASSIFICATION		
		Treatment of Joints/Cracks in Substrate	Primer	Base Membrane	Surfacing Material	Finish Coat	Substrate	Max. Slope (inch per horizontal foot)	Fire Classification
2.1	Flexideck® P-A	Water-catalyzed P-Tuff® Mixed Membrane Material (MMM) as a caulking compound and Straight Jacket tape for reinforcement	Enviro-Grip® EP#1, Enviro-Grip® EP#2, Enviro-Grip® PU#3, or Enviro-Grip® PU#4 1 gal. per 300 sq. ft. Minimum Dry Mil: 3	First Coat: P-Tuff® MMM 3 gal. per 100 sq. ft. Minimum Dry Mil: 36  Second Coat: P-Tuff® MMM 1 gal. per 100 sq. ft. Minimum Dry Mil: 12	Rounded Sand 100 lbs. per 100 sq. ft.	First Coat: Topshield® EST-FR 1½ gal. per 100 sq. ft. Minimum Dry Mil: 13  Second Coat: Topshield® EST ¾ gal. per 100 sq. ft. Minimum Dry Mil: 8	¾- or 2½/32-inch Plywood	¼	A
							Concrete	¼	A
2.2	Flexideck® P-B	Same as Item 2.1	Same as Item 2.1	P-Tuff® MMM 4 gal. per 100 sq. ft. Minimum Dry Mil: 48	Rubber Granules	First Coat: Topshield® EST-FR 1½ gal. per 100 sq. ft. Minimum Dry Mil: 13  Second Coat: Topshield® EST ¾ gal. per 100 sq. ft. Minimum Dry Mil: 8	⅝- or 19/32-inch Plywood	¼	B
							Concrete	¼	A
2.3	Flexideck® P-TW Ceramic Tile Underlayment	Same as Item 2.1	Enviro-Grip® EP#1, or Enviro-Grip® PU#3 1 gal. per 300 sq. ft. Minimum Dry Mil: 3	P-Tuff® MMM 2½ gal. per 100 sq. ft. Minimum Dry Mil: 30	Angular Cracked Silica Sand till refusal	For Floors: Ceramic tile or dimensional stone  For Showers: shower lining	N/A	N/A	N/A

For SI: 1 gallon = 3.8 L, 1 sq. ft. = 0.093 sq. meters, 1 lb. = 4.45 N, 1 inch = 25.4 mm.

TABLE 3—BESSERN BUILDING PRODUCTS SYSTEMS

Item No.	System	COMPONENTS					ROOF CLASSIFICATION		
		Treatment of Joints/Cracks in Substrate	Primer	Base Membrane	Surfacing Material	Finish Coat	Substrate	Max. Slope (inch per horizontal foot)	Fire Classification
3.1	ENDURIT DECK Pro-WM 70 S	Water-catalyzed ENDURIT DECK Pro-55 BC Mixed Membrane Material (MMM) as a caulking compound and Straight Jacket tape for reinforcement	ENDURIT DECK Pro-Primer 55 or ENDURIT DECK Pro-Primer 60 1 gal. per 300 sq. ft. Minimum Dry Mil: 3	First Coat: ENDURIT DECK Pro-55 BC MMM 3 gal. per 100 sq. ft. Minimum Dry Mil: 36  Second Coat: ENDURIT DECK Pro-55 BC MMM 1 gal. per 100 sq. ft. Minimum Dry Mil: 12	Rounded Sand 100 lbs. per 100 sq. ft.	First Coat: ENDURIT DECK Pro-55 ALT FR 1½ gal. per 100 sq. ft. Minimum Dry Mil: 13  Second Coat: ENDURIT DECK Pro-55 ALT ¾ gal. per 100 sq. ft. Minimum Dry Mil: 8	¾- or 2½/32-inch Plywood	¼	A
							Concrete	¼	A
3.2	ENDURIT DECK Pro-WM 70 R	Same as Item 2.1	Same as Item 2.1	ENDURIT DECK Pro-55 BC MMM 4 gal. per 100 sq. ft. Minimum Dry Mil: 48	Rubber Granules	First Coat: ENDURIT DECK Pro-55 ALT FR 1½ gal. per 100 sq. ft. Minimum Dry Mil: 13  Second Coat: ENDURIT DECK Pro-55 ALT ¾ gal. per 100 sq. ft. Minimum Dry Mil: 8	⅝- or 19/32-inch Plywood	¼	B
							Concrete	¼	A
3.3	ENDURIT DECK Pro-UTM	Same as Item 2.1	ENDURIT DECK Pro-Primer 55, or ENDURIT DECK Pro-Primer 60 1 gal. per 300 sq. ft. Minimum Dry Mil: 3	ENDURIT DECK Pro-55 BC MMM 2½ gal. per 100 sq. ft. Minimum Dry Mil: 30	Angular Cracked Silica Sand till refusal	For Floors: Ceramic tile or dimensional stone  For Showers: shower lining	N/A	N/A	N/A

For SI: 1 gallon = 3.8 L, 1 sq. ft. = 0.093 sq. meters, 1 lb. = 4.45 N, 1 inch = 25.4 mm.



**DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION**  
**Section: 07 14 00—Fluid-Applied Waterproofing**  
**Section: 07 18 13—Pedestrian Traffic Coatings**

**DIVISION: 09 00 00—FINISHES**  
**Section: 09 30 00—Tiling**

**REPORT HOLDER:**

POLYCOAT PRODUCTS

**EVALUATION SUBJECT:**

POLYCOAT PRODUCTS WALKING DECK SYSTEM, POLYCOAT-AQUATIGHT® UNDERLAYMENT WATERPROOFING SYSTEM, POLYTUFF SYSTEMS INTERNATIONAL WALKING DECK SYSTEM, POLYTUFF SYSTEMS INTERNATIONAL FLEXIDECK® P-TW UNDERLAYMENT WATERPROOFING SYSTEM, BESSERN BUILDING PRODUCTS ENDURIT DECK PRO WALKING DECK SYSTEM AND BESSERN BUILDING PRODUCTS ENDURIT DECK PRO-UTM UNDERLAYMENT WATERPROOFING SYSTEM

**1.0 REPORT PURPOSE AND SCOPE****Purpose:**

The purpose of this evaluation report supplement is to indicate that walking deck systems and underlayment waterproofing systems described in ICC-ES evaluation report [ESR-2785](#), have also been evaluated for compliance with the codes noted below as adopted by the Los Angeles Department of Building and Safety (LADBS).

**Applicable code editions:**

- 2023 *City of Los Angeles Building Code* (LABC)
- 2023 *City of Los Angeles Residential Code* (LARC)

**2.0 CONCLUSIONS**

The walking deck systems and underlayment waterproofing systems described in Sections 2.0 through 7.0 of the evaluation report [ESR-2785](#), comply with the LABC and the LARC, and are subject to the conditions of use described in this supplement.

**3.0 CONDITIONS OF USE**

The walking deck systems and underlayment waterproofing systems described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report [ESR-2785](#).
- The design, installation, conditions of use and identification of the systems are in accordance with the 2021 *International Building Code*® (IBC) provisions noted in the evaluation report [ESR-2784](#).
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 15, 16 and 17, or LARC Chapter 9, as applicable.
- The installation of the walking deck systems must comply with City of Los Angeles Information bulletin P/BC 2020-16, Dwellings in High Wind Velocity Areas (HWA)."
- The walking deck systems have not been evaluated under the LABC Chapter 7A for use in exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Area.
- The walking deck systems have not been evaluated under the LARC Section R337 for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Area.

This supplement expires concurrently with the evaluation report, reissued March 2024.

**DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION**

Section: 07 14 00—Fluid-Applied Waterproofing

Section: 07 18 13—Pedestrian Traffic Coatings

**DIVISION: 09 00 00—FINISHES**

Section: 09 30 00—Tiling

**REPORT HOLDER:**

POLYCOAT PRODUCTS

**EVALUATION SUBJECT:**

POLYCOAT PRODUCTS WALKING DECK SYSTEM, POLYCOAT-AQUATIGHT® UNDERLAYMENT WATERPROOFING SYSTEM, POLYTUFF SYSTEMS INTERNATIONAL WALKING DECK SYSTEM, POLYTUFF SYSTEMS INTERNATIONAL FLEXIDECK® P-TW UNDERLAYMENT WATERPROOFING SYSTEM, BESSERN BUILDING PRODUCTS ENDURIT DECK PRO WALKING DECK SYSTEM AND BESSERN BUILDING PRODUCTS ENDURIT DECK PRO-UTM UNDERLAYMENT WATERPROOFING SYSTEM

**1.0 REPORT PURPOSE AND SCOPE****Purpose:**

The purpose of this evaluation report supplement is to indicate that the walking deck systems and underlayment waterproofing systems, described in ICC-ES evaluation report ESR-2785, have also been evaluated for compliance with the code(s) noted below.

**Applicable code edition(s):**

- 2022 California Building Code (CBC)

For evaluation of applicable chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) AKA: California Department of Health Care Access and Information (HCAI) and Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

- 2022 California Residential Code (CRC)

**2.0 CONCLUSIONS****2.1 CBC:**

The walking deck systems, described in Sections 2.0 through 7.0 of the evaluation report ESR-2785, comply with CBC Chapter 15, provided the design and installation are in accordance with the 2021 *International Building Code*® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapters 15, 16 and 17, as applicable.

The walking deck systems have not been evaluated under the CBC Chapter 7A for use in exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Area.

**2.2 OSHPD:**

The applicable OSHPD Sections and Chapters of the CBC are beyond the scope of this supplement.

**2.3 DSA:**

The applicable DSA Sections and Chapters of the CBC are beyond the scope of this supplement.

**2.4 CRC:**

The walking deck systems, described in Sections 2.0 through 7.0 of the evaluation report ESR-2785M, complies with CRC Chapter 9, provided the design and installation are in accordance with the 2021 *International Residential Code*® (IRC) provisions noted in the evaluation report and the additional requirements of CRC Chapter 9, as applicable.

The walking deck systems have not been evaluated under the CRC Section R337 for use in exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Area.

The products described in this supplement have not been evaluated for compliance with the *International Wildland-Urban Interface Code*<sup>®</sup>.

This supplement expires concurrently with the evaluation report, reissued March 2024.