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RESEARCH REPORT: RR 25261
(CSI # 07180)

Expires: November 1, 2020
Issued Date: February 1, 2019
Code: 2017 LABC

GENERAL APPROVAL - Renewal and Clerical Modification - 1. Dexcelent II Fire-Retardant Roof Covering and Walking Deck System and 2. UPI Deck Coating Roof Covering

DETAILS

1. Dexcelent II Fire-Retardant Roof Covering and Walking Deck System:

The Dexcelent II Roof Covering and Walking Deck System consists of a multi-component coating for exterior walking deck and roof covering. The system is applied over plywood substrates which has a minimum ¼ inch per foot slope for water drainage. Components of the system consists of galvanized expanded metal lath secured to the deck over which a polymer reinforced mortar mix known as Dexelcrete are troweled. A layer of fiberglass matting is then bonded to the surfacing using Dexcelent II Basecoat Resin. A texture coat of Dexcelent II Texture Coat mixture is then applied followed by a clear or pigmented sealer coat of Dexcelent II Final Coat.

The use of the roof system as a class “A” roof covering is subject to the following conditions:

- (1). The roofing components shall be delivered to the jobsites in sealed containers identified by the manufacturer's name and product designation.
- (2). Application of the components shall be onto a plywood deck in accordance with the manufacturer's instructions (a copy shall be available at the jobsite) consistent with the description and requirements herein. All surfaces which

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are to be coated shall be free of water, curing compounds, bond breakers, hardeners, oil, etc.

- A. Over concrete, the base coat is UI-7013 applied by squeegeing or trowelling to a minimum thickness of 25 mils. The second coat is UI-7013 applied by squeegeing to a minimum thickness of 25 mils.
- B. Over 5/8" wood structural panel, the base coat is UI-7013 applied by squeegeing or trowelling to a minimum thickness of 35 mils. The second coat is UI-7013 applied by squeegeing to a minimum thickness of 20 mils. Over the second coat, a fine aggregate is applied at the rate of 0.8 lbs. per sq. ft. followed by clear or pigmented coat of UI-7016 applied 3 mils thick.

The wood structural panel shall be exterior grade tongue and groove with top side plugged and sanded. All joints are caulked with a rubber caulking approved by U.P.I. The wood structural panel shall be fastened to all structural supports with screws or cement-coated nails spaced not more than 4" on center.

2. UPI Deck Coating Roof Covering:

- Over concrete, the base coat is UI-7013 applied by squeegeing or trowelling to a minimum thickness of 25 mils. The second coat is UI-7013 applied by squeegeing to a minimum thickness of 25 mils.
- Over 5/8" wood structural panel, the base coat is UI-7013 applied by squeegeing or trowelling to a minimum thickness of 35 mils. The second coat is UI-7013 applied by squeegeing to a minimum thickness of 20 mils. Over the second coat, a fine aggregate is applied at the rate of 0.8 lbs. per sq. ft. followed by clear or pigmented coat of UI-7016 applied 3 mils thick.
- The wood structural panel shall be exterior grade tongue and groove with top side plugged and sanded. All joints are caulked with a rubber caulking approved by U.P.I. The wood structural panel shall be fastened to all structural supports with screws or cement-coated nails spaced not more than 4" on center.

The use of the UPI Deck Coating as a class "B" roof covering is subject to the following conditions:

- (1). The urethane materials shall be delivered to the jobsites in sealed containers identified by the manufacturer's name and product designation.
- (2). Application of materials shall be in accordance with the manufacturer's instructions (a copy shall be available at the jobsite) consistent with the

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description and requirements herein. All surfaces which are to be coated shall be free of water, curing compounds, bond breakers, hardeners, oil, etc.

- (3). Surfaces to be covered shall be sound, clean and free of laitance, oil, wax and grease. Cracks in concrete shall be filled and sealed.
- (4). Fine aggregate and top coat as indicated for wood decks, may be used over the second coat on the concrete decks.

DISCUSSION

The Clerical Modification is to update the report to the 2017 Los Angeles City Building Code.

The report is in compliance with the 2017 Los Angeles City Building Code.

The approval is based on tests and analyses.

Addressee to whom this Research Report is issued is responsible for providing copies of it, complete with any attachments indicated, to architects, engineers and builders using items approved herein in design or construction which must be approved by Department of Building and Safety Engineers and Inspectors.

This general approval of an equivalent alternate to the Code is only valid where an engineer and/or inspector of this Department has determined that all conditions of this Approval have been met in the project in which it is to be used.

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