

Iso-Flex Balcony Coating Plywood Deck Application Guide

The Coverage rates provided are intended as a guideline for estimating purposes only. Quantities do not include scrap or detailing considerations. These estimated coverage ranges assume application temperatures of 60 °F to 80 °F using 16:30 mesh graded, round silica aggregate. Actual coverage rates will vary with application techniques, variation in installation temperature and variation in aggregate type / size utilized.

General

This coating guide is intended to provide information specifically related to the proper design of plywood pedestrian decks and the installation of Iso-Flex traffic coatings on plywood decks.

In addition to this written guide you can refer to LymTal CAD details Dwg. 1626-00 covering the plywood design and coating details.

Plywood Deck Construction

Following are the key points and design aspects that are critical to a successfully coated plywood pedestrian deck.

1. Plywood must be marine grade or exterior grade plywood only.
2. Prior to application of the coating system it is important to verify the moisture content of the plywood. A moisture content of less than 3% is required.
3. The exposed plywood face to be coated must be smooth and free of voids that will pool the liquid materials.
4. It is highly recommended that plywood utilized be tongue-and-groove. If tongue-and-groove plywood is not used, all plywood sheet joints running transverse to the direction of the floor joist system require 2 x 4 wood blocking below in order to support the jointed connection. Any live load deflection in adjoined plywood sheets is not acceptable.
5. All plywood sheet connections shall be held back with a 1/8" spacing to allow for flexible urethane sealant. The sealant shall be forced into the joint gap and struck smooth with the traffic surface.
6. All fasteners must be screw type and shall be non-rusting. Structural adhesive should also be employed to bond the plywood sheeting to the structural members.
7. It is always recommended to wrap your coating system vertically up walls by 4" to 6". The vertical transitions should be treated with a cove bead of sealant prior to the installation of the Iso-Flex 780NP Base Coat.

Iso-Flex Balcony Coating System

While most typical procedures apply when coating plywood pedestrian decks, there are special considerations that must be attended to. The items outlined below are critical to your successful balcony coating application.

1. A clean and dry wood substrate is required prior to coating application.
2. When utilizing Iso-Flex 780NP Base Coat a primer is not required.
3. When coating plywood decks special care is required at jointing of the plywood sheets.
4. All plywood joints shall be held open at 1/8" in order to allow for the application of Iso-Flex urethane sealant such as 881 or 825 materials. The sealant should be forced into the connection to ensure that it is filled and then struck smooth with a putty knife or margin trowel.
5. If plywood sheathing other than tongue-and-groove is used all joints in the plywood sheathing that run transverse to the floor joist system must be supported by 2 x 4 blocking below.
6. With the sealant in place all joints in the plywood running in all directions must be detail coated utilizing the Iso-Flex base coat material. The detail coat shall be 20 dry mils by 4 inches wide.

