

Master Builders Technologies
Membrane Products
SPECIFICATION BULLETIN

Section 07104
ISO-FLEX® ELASTOMERIC DECK COATING SYSTEMS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the contract, including General and Supplementary Conditions, apply to this section.

1.02 RELATED WORK SPECIFIED ELSEWHERE

A. Concrete curing, finishing, jointing and repair affect this section.

1.03 QUALITY ASSURANCE

A. Work under this section shall be performed by an applicator approved by the manufacturer, both having a minimum of five continuous years of experience in this type of work. The manufacturer shall evidence in writing that the applicator designated to perform the work is qualified to install the specified systems.

B. Prequalification of bidders: Submit proposed subcontractors to the engineer for approval prior to bid. Qualification criteria shall include compliance with 1.03-A above. Specifier retains absolutely the right to reject any applicator or manufacturer submitted.

C. A site inspection shall be made by the approved applicator prior to commencing installation of the system for purposes of reviewing related conditions affecting performance requirements of this specification.

D. All products described in this section must be used with adequate ventilation and personal protection. Refer to the Material Safety Data Sheet which accompanies each product shipment for detailed health and safety information prior to use.

1.04 SUBMITTALS

A. A detailed statement describing the deck coating systems to be installed shall be submitted for approval prior to installation. Literature, details, samples, shop drawings, warranties, etc., shall be included in the submittal as requested.

B. Manufacturer's written acceptance and approval of the intended system applicator is required.

PART 2 - PRODUCTS

2.01 MATERIALS

A. The elastomeric deck coating systems specified herein shall be complete systems of compatible materials. Components of the systems shall include a primer coat, a base coat, one or more topcoats and all sealants, flashings, aggregate and miscellaneous materials as required by the system manufacturer to complete the system. Recommended mil thicknesses will vary according to intended usage. All coating materials shall be polyurethanes containing no adulterants. Epoxy topcoats shall be utilized as recommended by the system manufacturer.

B. The following materials are approved for usage under this section:

1. "Iso-Flex 750U Polyurethane Elastomeric Deck Coating System" by Master Builders, Inc., 23700 Chagrin Blvd., Cleveland, Ohio 44122 (216-831-5500).

Use the following 750U systems as appropriate:

750U - LVT for pedestrian and light vehicular traffic (parking stalls).

750U - MVT for medium vehicular traffic (drive lanes slope less than 6%).

750U - HVT for heavy vehicular traffic (drive lanes greater than 6% slope, entry, exit & turn zones).

2. "Iso-Flex 750U-HL Polyurethane Elastomeric Deck Coating System" by Master Builders, Inc., 23700 Chagrin Blvd., Cleveland, Ohio 44122 (216-831-5500).

Use the following 750U-HL systems as appropriate:

750U-HL - MVT for special surface applications.

750U-HL - HVT for high wear areas.

3. "Iso-Flex 750EU Polyurethane / Epoxy Elastomeric Deck Coating System" by Master Builders, Inc., 23700 Chagrin Blvd., Cleveland, Ohio 44122 (216-831-5500).

Use the following 750EU systems as appropriate:

750EU - LMD for special surface applications.

750EU - HD for high wear areas.

Note to Specifier: 750EU and 750U differ significantly in appearance due to the much higher aggregate loadings in the 750EU topcoats. The 750U system is recommended for most applications and is sometimes supplemented with 750EU - HD in limited high wear areas, such as entry and exit ramps in excess of 6% slope. 750U-HL has similar aggregate loading to 750EU and is recommended in lieu of 750EU where conditions require a urethane wearing surface.

PART 3 - EXECUTION

3.01 GENERAL

A. All work shall be installed in strict accordance with system manufacturer's recommendations employing trained installers utilizing proper tools and equipment and working under the direct supervision of a technically competent and experienced supervisor.

B. All surfaces related to work under this section shall be inspected by the approved applicator prior to commencing work. Any conditions discovered which render the substrate unsuitable shall be reported and satisfactorily corrected prior to installation of the deck coating system.

- C. Coordinate and verify that related work items meet the following requirements.
1. All surfaces shall be clean, dry and of sound substrate at time of application. Surfaces shall be provided free of voids, ridges and sharp projections.
 2. Concrete surfaces to receive deck coating systems shall be wood float or broom finished.
 3. Concrete surfaces shall be water cured, or cured with a compatible curing compound as recommended by manufacturer.
 4. Concrete surfaces shall have cured for an acceptable period as recommended by manufacturer.
- D. Environmental Conditions
1. Application shall be at temperatures ranging from 40°F to 110°F for the Iso-Flex 750U system, and from 50°F to 110°F for the Iso-Flex 750EU system.
 2. The deck surface shall be dry at time of application according to ASTM D4263, Standard Test Method for Indicating Surface Moisture of Concrete.
 3. Provide adequate ventilation in accordance with system manufacturer's recommendations during installation of the deck coating systems.

3.02 INSTALLATION

- A. Installation procedures shall be in accordance with the system manufacturer's recommendations. All coatings shall be applied to clean, dry, sound substrates.
- B. Clean, dry, silica aggregate shall be placed in the topcoat as applicable, to provide an integral, textured surface. Alternative aggregate may be used as recommended by the system manufacturer.
- C. The elastomeric deck coating system shall be protected from traffic until fully cured.

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