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RESEARCH REPORT: RR 5271
EFFECTIVE DATE: 02/01/2023
EXPIRATION DATE: 02/01/2024
Telephone: 714-793-1974

GENERAL APPROVAL - Renewal - Elasto-Deck B.T. Waterproofing Polyurethane Elastomer for Water Tank Lining and Shower Pan and Roman Tub Lining Applications. Products variations are Elasto-Deck B.T., Elasto-Deck B.T. 1000, B.T. H2O, Elasto-Deck B.T. 100% solids, Elasto-Deck B.T. Two-Component, Elasto-Deck B.T. Reservoir Grade and Elasto-Deck B.T. Knifegrade joint sealant.

DETAILS

These products are liquid applied, polyurethane based elastomers for waterproofing and consist of Elasto-Poxy Primer (for use with fire protection tank liner) and Elasto-Deck B.T. Membrane, applied in liquid form to concrete surfaces (also wood and metal if Primer is used) for shower pan and fire protection and non-potable water storage tank liner applications.

The approval is subject to the following conditions:

1. For fire protection and non-potable water storage service, the following conditions apply:
 - a. Elasto-Poxy Primer is required to be applied to metal and concrete fire protection tank surfaces before finishing with Elasto-Deck B.T.
 - b. Elasto-Poxy Primer is required to be tacky before Elasto-Deck B.T. is applied. Inspection of tacky primer is not advisable due to toxic fumes; therefore, a few small patches of primer shall be left uncovered above the waterline for inspection purposes.
 - c. New concrete shall be clean, dry and allowed to cure a minimum of 28 days before the Elasto-Poxy Primer may be applied.

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- d. The applied dry thickness of the coatings shall be as follows:
 - i. Elasto-Poxy Primer to 3-mil dry.
 - ii. Elasto-Deck B.T. to 60-mil dry. Apply in two coats.
 - e. The cured liner shall be subjected to a 72-hour water leakage test. The sump drain opening and the opening connecting to the fire protection system shall remain unconnected (open) so that any visible water leakage can be seen. Verification of the water levels at the completion of the test shall be witnessed by an Inspector from Plumbing Inspection Division of the Department of Building and Safety.
 - f. The temperature limitations for this product are 130°F maximum for continuous exposure and 175°F for intermittent exposure.
 - g. Repairs to the liner shall be made with only Pacific Polymers material.
 - h. Each installation shall be identified with a permanent machine-made label showing the installer's name, a list of the installed liner materials, liner thickness, and date of liner installation where visible for inspection purposes.
2. For shower pan applications, the following conditions apply:
- a. These products may be installed as a substitute for a built-up shower pan liner as required by Section 94.408.7 of the Los Angeles Plumbing Code, 2023 Edition.

NOTE: No layers of standard grade 15-pound tar or asphalt-impregnated roofing felt are required.
 - b. Application of Elasto-Poxy Primer may be optional for shower pan lining.
 - c. This shower pan liner shall seal all seams and corners of the shower area; however, all weep holes of the sub-drain shall be left open.
 - d. New concrete shall be allowed to cure a minimum of 28 days before the Elasto - Poxo Primer may be applied.
 - e. The applied dry thickness of the coatings shall be as follows:
 - i. Elasto-Poxy Primer (optional) to 3-mil dry.
 - ii. Elasto-Deck B.T. to 60-mil dry.

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- f. Each installation shall provide with documentation showing the installer's name, a list of the installed liner materials, liner thickness, and date of liner installation available on site at time of inspection.

DISCUSSION

The Mechanical Testing Laboratory reviewed recent test reports. The materials and construction appear to be equivalent to that prescribed by the Los Angeles Municipal Code in quality, strength, effectiveness, durability, and safety.

For this General Approval to be valid on any individual construction project in the City of Los Angeles, an engineer or inspector of the Department of Building and Safety must make a determination that all conditions of the General Approval required to provide equivalency have been met in the case of each construction project under consideration.

This approval is granted under Sections 94.301.0, and 94.408.7 of the Los Angeles Plumbing Code, 2023 Edition; and Section 4.7 of NFPA 22, 2018 Edition.

Approved by:

Irene Pool
Mechanical Testing Laboratory
Permit and Engineering Bureau