



Product Evaluation

RC466 | 1115

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: RC-466

Effective Date: November 1, 2015

Re-evaluation Date: November 2019

Product Name: Tritoflex Liquid Applied Roof Covering

Manufacturer: Triton, Inc.
250 33rd Street Drive SE
Cedar Rapids, IA 52403
(319) 861-5233
www.tritonwp.com

General Description:

The TRITOflex System is an instant setting, cold fluid, liquid applied roofing and waterproofing system that is a spray applied to the desired substrate. The liquid TRITOflex product is water based and solvent free which transforms into an instant-setting and seamless rubberized roof membrane as it is spray-applied to the substrate and catalyzed by an accelerator component.

The liquid is spray-applied in a single coat to achieve a minimum monolithic rubber membrane thickness of either 60 or 80 mils after final cure. Upon complete cure of the TRITOflex, any areas requiring additional thickness are addressed with TRITOtrowel, a trowel grade moisture cure rubber with similar performance properties as TRITOflex. Once complete the system is then coated with TRITOtherm, an acrylic elastomeric thermally reflective protective coating.

Limitations:

Roof Slope: The roof deck must be provided with positive drainage. A minimum roof slope after construction of 1/4:12 is recommended.

Installation:

General Installation Requirements: Manufacturer's installation instructions must be followed, unless otherwise specified by this product evaluation. All edge, corner, and penetration flashing must be installed according to the manufacturer's installation instructions. All fasteners must be corrosion resistance as specified in the IRC, the IBC, and the Texas Revisions.

Application Conditions: Tritoflex roofing system shall not be applied if the ambient temperature is expected to fall below 40 degrees Fahrenheit during installation or the required cure time. Rain falling on the Tritoflex system immediately following installation will not damage the rubber, but any ponding water should be removed until the Tritoflex system has been allowed to fully cure.

Installation over an Existing Roof Covering: Installation of the Tritoflex system over an existing roof covering system is not within the scope of this evaluation report.

Inspection

Examine the existing roof conditions under which work in this section will be installed. Correct conditions detrimental to the proper and timely completion of the work such as wet underlying insulation, loose membrane, and severe degradation. Do not proceed until such conditions have been corrected.

Surface Conditions

- Surfaces scheduled to receive waterproofing are to be sound, clean, dry, and free of any dust, grease, oil, laitance, and other contaminants.
- Substrate is to be free of sharp projections and free of loose components.

Installation – Preparation of Substrate

- Protect all adjacent surfaces from overspray at all times. Taping off surfaces with painter plastic to prevent overspray onto surfaces and to establish clean straight edge termination lines on the new liquid membrane flashings is required.
- All existing metal flashings that are specified to remain must be inspected for water tightness. Any flashing metal such as counter flashing, termination bar, coping caps, edge metal, etc., shall be properly repaired to achieve a watertight condition.
- Remove all dirt, debris, and loose materials from the surface of the roof.
- Existing surfaces shall be cleaned with pressure washing equipment to a condition conducive of positive adhesion of the TRITOflex, per manufacturers' requirements prior to application of primer and/or fluid applied system. Unapproved curing compound, form release agents, petroleum distillates, animal fats and other contaminates shall not come into contact with approved substrate after cleaning. Contractor shall complete installation of TRITOflex membrane within two days after cleaning of substrate.
- Verify the substrate is visibly dry on the surface and free of moisture within its components. Moisture meters, infrared scanning, or capillary moisture tested by plastic sheet method according to ASTM D-4263, may be necessary. If moisture is present on the substrate it must be allowed to dry prior to proceeding with TRITOflex application.

Assembly No. 1 – Concrete Deck

Design Wind Pressure: -450 psf

Roof Deck: The roof deck must consist of minimum 2,500 psi structural concrete.

Membrane: Mix Tritoflex and accelerator at a ratio of 10 to 1 and spray-applied at a rate of 6 gallons/square to a minimum thickness of 60 mils.

Note: Keep the manufacturer’s installation instructions available on the job site during the installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.