

Product Evaluation

RC623 | 0720

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-623

Effective Date: July 1, 2020

Re-evaluation Date: July 2024

Product Name: Fluid Applied Reinforced Roof Covering System

Manufacturer: Western Colliod, Inc.
700 71st Ave
Oakland, CA 94621
(510) 755-5203

General Description:

Components:

Elastahyde #720 ARC. A 100 percent acrylic, premium quality, high durability, elastomeric coating. Used as a base coat and as intermediate and top coats.

Elastahyde #770 AXP. A 100 percent acrylic, premium quality, high durability, elastomeric coating. Used as a base coat.

WCP-SF (W-26) Stitchbonded Polyester Fabric. A 2.75 ounce stitchbonded style polyester fabric with a firm finish. Used the reinforcing fabric.

Limitations:

Design Wind Pressures: The fluid applied reinforced roofing system, when installed in accordance with this evaluation report, must have the allowable uplift wind pressure specified in each assembly of this evaluation report.

Application Conditions: Do not apply fluid applied reinforced roofing system if the ambient temperature is expected to fall below 50 degrees F or if cold weather, rain or fog is expected within forty-eight (48) hours of the application.

Installation:

General: Satisfy all IRC and IBC requirements, and follow the manufacturer's installation instructions, unless otherwise specified by this product evaluation.

Concrete Surfaces: Surfaces must be thoroughly dry. Remove dirt or dust that settles on surfaces before the start of work. Sweeping or blowing may be sufficient; however, washing or damp-mopping is considered the best procedure. Clean the substrate to remove all surface contaminants according to the manufacturer's current published application instructions. Refer to the manufacturer's published installation instructions for addition application and flashing details.

Assemblies:**Assembly 1**

Design Pressure: -352.5 psf

Substrate: Concrete; minimum 3,000 psi

Insulation: Two layers of 1-1/2" thick Rmax Multi-Max FA-3. Applied with Insta-Stik Roofing adhesive applied in ribbons spaced 6" on center.

Cover Board: Minimum 1/4" thick Dens Deck Prime, Applied with Insta-Stik Roofing adhesive applied in ribbons spaced 6" on center.

Base Coat: Elastahyde #720 ARC. Apply at a rate of 3 gallons/square and in accordance with the manufacturer's published application instructions.

Reinforcement: WCP-SF (W-26) Stitchbonded Polyester Fabric. Wet laid into the base coat

Intermediate Coat: Elastahyde #720 ARC. Apply at a rate of 2 gallon/square and in accordance with the manufacturer's published application instructions

Reinforcement: WCP-SF (W-26) Stitchbonded Polyester Fabric. Wet laid into the intermediate coat

Coat: Two coats of Elastahyde #720 ARC. Apply at a rate of 1.5 gallon/square and in accordance with the manufacturer's published application instructions.

Top Coat: Two coats of Elastahyde #720 ARC. Apply at a rate of 1 gallon/square and in accordance with the manufacturer's published application instructions

Assembly 2

Design Pressure: -255 psf

- Substrate: Concrete; minimum 3,000 psi
- Insulation: Two layers of 1-1/2" thick Rmax Multi-Max FA-3. Applied with Insta-Stik Roofing adhesive applied in ribbons spaced 6" on center.
- Cover Board: Minimum 1/4" thick Dens Deck Prime, Applied with Insta-Stik Roofing adhesive applied in ribbons spaced 6" on center.
- Base Coat: Elastahyde #770 AXP. Apply at a rate of 3 gallons/square and in accordance with the manufacturer's published application instructions.
- Reinforcement: WCP-SF (W-26) Stitchbonded Polyester Fabric. Wet laid into the base coat
- Intermediate Coat: Elastahyde #720 ARC. Apply at a rate of 2 gallon/square and in accordance with the manufacturer's published application instructions
- Reinforcement: WCP-SF (W-26) Stitchbonded Polyester Fabric. Wet laid into the intermediate coat
- Coat: Two coats of Elastahyde #720 ARC. Apply at a rate of 1.5 gallon/square and in accordance with the manufacturer's published application instructions.
- Top Coat: Two coats of Elastahyde #720 ARC. Apply at a rate of 1 gallon/square and in accordance with the manufacturer's published application instructions

Assembly 3

Design Pressure: -495 psf

- Substrate: Concrete; minimum 3,000 psi
- Base Coat: Elastahyde #720 ARC or #770 AXP. Apply at a rate of 3 gallons/square and in accordance with the manufacturer's published application instructions.
- Reinforcement: WCP-SF (W-26) Stitchbonded Polyester Fabric. Wet laid into the base coat
- Coat: Elastahyde #720 ARC. Apply at a rate of 1.5 gallons/square and in accordance with the manufacturer's published application instructions.
- Top Coat: Elastahyde #720 ARC. Apply at a rate of 1.5 gallons/square and in accordance with the manufacturer's published application instructions

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