

Product Evaluation

RC628 | 0920

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-628

Effective Date: September 1, 2020

Re-evaluation Date: September 2024

Product Name: GacoFlex® Pedestrian and Vehicular Traffic Deck Waterproofing Systems

Manufacturer: Gaco a div. of Firestone Building Products Company, LLC
200 4th Street South
Nashville, TN 37201
(317) 845-3875

General Description:

Components:

Sealer

GacoFlex® E-5990. Epoxy two-component concrete sealer.

Primer

GacoFlex® E-5320. Epoxy two-component general purpose primer.

GacoFlex® E-5691. Epoxy three-component (Part A, Part B, and water) general purpose primer and concrete sealer.

Coatings

GacoFlex® UB-64. Polyurethane two-component base and intermediate coat for pedestrian decks and traffic decks.

GacoFlex® U-64. Polyurethane two-component topcoat for traffic decks.

GacoFlex® U-66. Polyurethane two-component topcoat for pedestrian decks.

GacoFlex® U-91. Polyurethane one-component topcoat for pedestrian decks and traffic decks.

Texture

GacoShell®. Walnut shell aggregate

Limitations:

Design Wind Pressures: The GacoFlex® Pedestrian and Vehicular Traffic Deck Waterproofing Systems, when installed in accordance with this evaluation report, must have the allowable uplift wind pressure specified in each assembly of this evaluation report.

Product Identification: Each container of polyurethane, aggregate and epoxy products bear a label with the Gaco name and address; the product name; the component type; the shelf life; and the manufacture date.

Application Conditions: Do not apply GacoFlex® Pedestrian and Vehicular Traffic Deck Waterproofing Systems if the ambient temperature is expected to fall below 40 degrees F, the ambient temperature is within 5 degrees F of the dew point, or if expecting rain before the application has time to cure. Do not apply the coating when dew, condensation, precipitation, or if anticipating freezing temperatures prior to completion of the coating 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 to ensure adhesion for all primers and coatings except those designed for moist surfaces. Remove dirt or dust that settles on surfaces before the start of work or between coats. Sweeping or blowing may be sufficient; however, washing or damp-mopping is considered the best procedure. Clean 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.

Application Rates:

Sealer

GacoFlex® E-5990. Applied at a minimum of 0.50 gal/100 sq. ft.

Primer

GacoFlex® E-5320. Applied at a rate of 0.50 gal/100 sq. ft.

GacoFlex® E-5691. Applied at a rate of 0.33 gal/100 sq. ft.

Base Coat

GacoFlex® UB-64. Applied at a rate of 1.25 gal/100 sq. ft.

GacoFlex® U-91. Applied at a rate of 1.00 gal/100 sq. ft.

Intermediate Coat

GacoFlex® UB-64. Applied at a rate of 1.00 gal/100 sq. ft. followed by a broadcast GacoShell® over wet coating.

GacoFlex® U-91. Applied at a rate of 1.00 gal/100 sq. ft. followed by a broadcast GacoShell® over wet coating.

Top Coat

GacoFlex® U-64. Applied at a rate of 1.25 gal/100 sq. ft. fully encapsulating GacoShell® granules.

GacoFlex® U-66. Applied at a rate of 1.00 gal/100 sq. ft. fully encapsulating GacoShell® granules.

GacoFlex® U-91. Applied at a rate of 0.75 gal/100 sq. ft. fully encapsulating GacoShell® granules.

Assemblies:**Assembly 1. GacoFlex® Waterproofing over Concrete for Pedestrian Decks**

Design Pressure: -435 psf

Substrate: Concrete; minimum 2,500 psi

Sealer: (Optional) GacoFlex® E-5990. Seal the entire deck surface at the rate specified in this evaluation report in accordance with the manufacturer's published application instructions

Primer: GacoFlex® E-5320 (only applied over GacoFlex® E-5990) or GacoFlex® E-5691 (applied over concrete deck only). Apply at the rate specified in this evaluation report in accordance with the manufacturer's published application instructions.

Base Coat: GacoFlex® UB-64. Apply at the rate specified in this evaluation report in accordance with the manufacturer's published application instructions

Intermediate Coat: GacoFlex® UB-64. While coating is wet, broadcast GacoShell® size 18/40 at a rate of 6 to 8 lbs./100 sq. ft. in accordance with the manufacturer's published application instructions

Top Coat: GacoFlex® U-66. Apply at the rate specified in this evaluation report in accordance with the manufacturer's published application instructions.

Assembly 2. GacoFlex® Waterproofing over Concrete for Pedestrian Decks

Design Pressure: -502.5 psf

Substrate: Concrete; minimum 2,500 psi

Sealer: (Optional) GacoFlex® E-5990. Seal the entire deck surface at the rate specified in this evaluation report in accordance with the manufacturer's published application instructions

Primer: GacoFlex® E-5320 (only applied over GacoFlex® E-5990) or GacoFlex® E-5691 (applied over concrete deck only). Apply at the rate specified in this evaluation report in accordance with the manufacturer's published application instructions.

Base Coat:	GacoFlex® U-91. Apply at the rate specified in this evaluation report in accordance with the manufacturer's published application instructions
Intermediate Coat:	GacoFlex® U-91. While coating is wet, broadcast GacoShell® size 18/40 at a rate of 6 to 8 lbs./100 sq ft. in accordance with the manufacturer's published application instructions
Top Coat:	GacoFlex® U-91. Apply at the rate specified in this evaluation report in accordance with the manufacturer's published application instructions.

Assembly 3. GacoFlex® Waterproofing over Concrete for Vehicular Decks

Design Pressure: -437.5 psf

Substrate:	Concrete; minimum 2,500 psi
Sealer:	(Optional) GacoFlex® E-5990. Seal the entire deck surface at the rate specified in this evaluation report in accordance with the manufacturer's published application instructions
Primer:	GacoFlex® E-5320 (only applied over GacoFlex® E-5990) or GacoFlex® E-5691 (applied over concrete deck only). Apply at the rate specified in this evaluation report in accordance with the manufacturer's published application instructions.
Base Coat:	GacoFlex® UB-64. Apply at the rate specified in this evaluation report in accordance with the manufacturer's published application instructions
Intermediate Coat:	GacoFlex® UB-64. While coating is wet, broadcast GacoShell® size 12/20 at a rate of 3 to 5 lbs./100 sq ft. in accordance with the manufacturer's published application instructions
Top Coat:	GacoFlex® U-64. Apply at the rate specified in this evaluation report in accordance with the manufacturer's published application instructions.

Assembly 4. GacoFlex® Waterproofing over Concrete for Vehicular Decks

Design Pressure: -502.5 psf

Substrate:	Concrete; minimum 2,500 psi
Sealer:	(Optional) GacoFlex® E-5990. Seal the entire deck surface at the rate specified in this evaluation report in accordance with the manufacturer's published application instructions
Primer:	GacoFlex® E-5320 (only applied over GacoFlex® E-5990) or GacoFlex® E-5691 (applied over concrete deck only). Apply at the rate specified in this evaluation report in accordance with the manufacturer's published application instructions.
Base Coat:	GacoFlex® U-91. Apply at the rate specified in this evaluation report in accordance with the manufacturer's published application instructions
Intermediate Coat:	GacoFlex® U-91. While coating is wet, broadcast GacoShell® size 12/20 at a rate of 4 to 6 lbs./100 sq ft. in accordance with the manufacturer's published application instructions
Top Coat:	GacoFlex® U-91. Apply at the rate specified in this evaluation report in accordance with the manufacturer's published application instructions.

Assembly 5. GacoFlex® Waterproofing over Concrete for Vehicular Decks with Ramps and Turn Areas

Design Pressure: -437.5 psf

Substrate: Concrete; minimum 2,500 psi

Sealer: (Optional) GacoFlex® E-5990. Seal the entire deck surface at the rate specified in this evaluation report in accordance with the manufacturer's published application instructions

Primer: GacoFlex® E-5320 (only applied over GacoFlex® E-5990) or GacoFlex® E-5691 (applied over concrete deck only). Apply at the rate specified in this evaluation report in accordance with the manufacturer's published application instructions.

Base Coat: GacoFlex® UB-64. Apply at the rate specified in this evaluation report in accordance with the manufacturer's published application instructions

Intermediate Coat: GacoFlex® UB-64 to ramp and turn areas. While coating is wet, broadcast GacoShell® size 12/20 at a rate of 4 to 6 lbs./100 sq ft. in accordance with the manufacturer's published application instructions.

Apply a second coat of GacoFlex® UB-64 to the entire deck surface including the ramp and turn areas at the rate specified in this evaluation report in accordance with the manufacturer's published application instructions. While coating is wet, broadcast GacoShell® size 12/20 into all areas except the ramp and turn areas at a rate of 3 to 5 lbs./100 sq ft. in accordance with the manufacturer's published application instructions.

Top Coat: GacoFlex® U-64. Apply at the rate specified in this evaluation report in accordance with the manufacturer's published application instructions.

Assembly 6. GacoFlex® Waterproofing over Concrete for Vehicular Decks with Ramps and Turn Areas

Design Pressure: -502.5 psf

Substrate: Concrete; minimum 2,500 psi

Sealer: (Optional) GacoFlex® E-5990. Seal the entire deck surface at the rate specified in this evaluation report in accordance with the manufacturer's published application instructions

Primer: GacoFlex® E-5320 (only applied over GacoFlex® E-5990) or GacoFlex® E-5691 (applied over concrete deck only). Apply at the rate specified in this evaluation report in accordance with the manufacturer's published application instructions.

Base Coat: GacoFlex® U-91. Apply at the rate specified in this evaluation report in accordance with the manufacturer's published application instructions

Intermediate Coat: GacoFlex® U-91 to ramp and turn areas. While coating is wet, broadcast GacoShell® size 12/20 at a rate of 4 to 6 lbs./100 sq ft. in accordance with the manufacturer's published application instructions.

Apply a second coat of GacoFlex® U-91 to the entire deck surface including the ramp and turn areas at the rate specified in this evaluation report in accordance with the manufacturer's published application instructions.

While coating is wet, broadcast GacoShell® size 12/20 into all areas except the ramp and turn areas at a rate of 3 to 5 lbs./100 sq ft. in accordance with the manufacturer's published application instructions.

Top Coat: GacoFlex® U-91. Apply at the rate specified in this evaluation report 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.