



FlexShield UBC **Urethane Base Coat**

Product Information and Technical Data

FlexShield UBC is a liquid applied, single component, moisture-cured polyurethane waterproofing product.

PRODUCT DESCRIPTION

Composition: Liquid-applied, single-component, moisture-cured, polyurethane elastomer.

Basic Uses: FlexShield UBC is the waterproofing membrane used with many of the GlobalShield Systems. FlexShield UBC is widely used to waterproof polyurethane foam, concrete and plywood decks that are subsequently covered with outdoor carpeting, tile, or wood decking. The product is recommended for all applications that require the waterproof surface to be painted, and where bitumen extended polyurethane would not be suitable. FlexShield UBC is designed as a high performance elastomeric cover over spray applied polyurethane foam, modified bitumen, built-up and single-ply roofs. FlexShield UBC is available in a special thixotropic consistence for use over irregular surfaces such as roof. FlexShield UBC must be coated with a GlobalShield Aliphatic Urethane or approved coating if used over roof membranes.

Limitations: All materials shall be delivered to the jobsite in unopened containers clearly marked and labeled. Containers that have been opened must be used up within one or two days since it is a moisture-reactive material. It sets up when exposed to air. All surfaces must be completely free of foreign matter, and primed with approved GlobalShield Epoxy or Urethane Primer, where necessary.

Shelf Life: 1 year at 77°F (25°C)

Color: Concrete Gray and Tan.

Sizes: Available in 5-gallon pails. Weighs 10.5 lbs. per gallon (4.76 kg/gallon).

Standards: Where FlexShield UBC is used as a component of GlobalShield Waterproofing Systems. Class "A" Fire Rating, A.S.T.M. E-108 on concrete decks. Complies with A.S.T.M. C-957-87.

INSTALLATION

Surface Preparation: All surfaces which are to be coated with FlexShield UBC must be free of contamination such as curing compounds, concrete hardeners, bond breakers, paint, etc. All surfaces must be dry, having a maximum water content of 20%. We recommend water-curing concrete instead of using concrete curing compounds. Only exterior grade plywood 5/8" minimum thickness should be used.

Concrete should be cleaned by sandblasting or acid etching. Allow a minimum drying time of 72 hours. Except for non-moving shrinkage cracks, all other cracks and joints must be sealed with GlobalShield Urethane Caulk, a single-component, moisture-cured sealant manufactured by GlobalShield, Inc. All surfaces, where necessary, must be primed with either the GlobalShield Urethane or Epoxy Primer prior to application of the coating system at a rate of 350 square feet per gallon (8.6 m²/liter), except for plywood in good condition.

Where FlexShield UBC is used as a protective coating on polyurethane foam roofs, it must be applied within 8 hours from the time the foam is installed and top coated with the GlobalShield #404 Aliphatic Top Coat or GlobalShield approved coating.

Application: FlexShield UBC shall be applied at a rate of 45 square feet per gallon (1.1m²/liter) per coat resulting in a 28 dry mil (0.6 mm) thickness. Most applications require two coats at this coverage, allowing a 24 hour cure time between coats. FlexShield UBC can be applied by airless spray equipment, rollers, or squeegees. Airless spray equipment must have a minimum of 30 to 1 ratio.

Product Warranty: All products proven to be defective in manufacture will be replaced at no charge.

MAINTENANCE: If FlexShield UBC is damaged, it can be repaired by cleaning the surface with M.E.K. and recoating it with FlexShield UBC.

Availability and Costs:

Availability: Products are immediately available from GlobalShield, Inc. throughout the United States.

Cost: Cost data is available from your local GlobalShield representative.

Technical Services: GlobalShield Technical Services Department provides problem analysis and assistance in developing recommendations for special applications. Warranty systems require inspection by GlobalShield prior to installation. Progress and final inspections are also required.

Statement of Policy and Responsibility: GlobalShield takes responsibility for the furnishing of quality materials, and providing specifications and recommendations for their proper installation. GlobalShield does not, either itself or through its representative, practice architecture or engineering.

GlobalShield offers no opinion on and expressly disclaims any responsibility for, the structural soundness of any substrate on which its products may be applied. Opinions of competent structural engineers should be obtained by the owner as to the structural

soundness of the substrate, or its ability to properly support the contemplated roof installation. GlobalShield accepts no liability for any failure of the roof deck or resultant damages, and no GlobalShield representative is authorized to vary this disclaimer.

TECHNICAL DATA:

Property	Standard	Results
Hardness	A.S.T.M. D-2240	55 Shore "A"
Ultimate Tensile Strength	A.S.T.M. D-412	975 P.S.I.
Ultimate Elongation	A.S.T.M. D-412	825 P.S.I.
Peel Strength on Polyurethane Foam	A.S.T.M. D-903	12.3 P.L.I.
Peel Strength on Primed Concrete	A.S.T.M. D-903	90 P.L.I.
Peel Strength on Plywood	A.S.T.M. D-903	95 P.L.I. cohesive failure
Solids Content	A.S.T.M. D-2369	83% by weight 73% by volume
Water Absorption	A.S.T.M. D-471	A.S.T.M. D-471
Temperature Range		-50°F to +200°F (-45°C to 93.3°C)
Viscosity at 77°F (25°C)	Brookfield Viscometer	75 ± 10 poises
Moisture Vapor Transmission	A.S.T.M. E96-66	1.94 gr/h/m ² 1mm(0.03937")dry film exposed to QUV 500hrs
Abrasion Resistance	A.S.T.M. C-501-62T	No change in weight 30 mil dry film on 4" x 4" (10 cm x 10 cm) metal, CS-17 wheel, 1000 rev. with 1000 grams weight
Tear Resistance	A.S.T.M. D-1004-66	220 P.L.I.
Perpendicular Bond-strength on Plywood		185 psi
Flash Point	Tag open-cup method	120 deg. F
Weight per gallon		10.5 lbs.
Shelf Life at 77 Deg. F.	(Unopened Containers)	1 year

