



FlexShield 1000 Coated Polyester Ply

Product Information and Technical Data

FlexShield 1000 Coated Polyester Ply is a unique thermally bonded, spun laid, nonwoven, roofing ply that is made from bicomponent filaments with a polyester core and polyamide skin. GlobalShield polyester roofing plies represent the highest available technology in built-up roofing ply sheets. Finish membrane assemblies provide high strength and long-term performance, while demonstrating superior elongation and recovery properties. Excellent for use with cold process or hot built-up modified bitumen systems. FlexShield 1000 Coated Polyester Ply is a tough, non rotting, coated polyester sheet weighing 4.5 lbs/sq.ft., and far exceeds the physical property requirements of ASTM D 2178, Type VI. Coating is quality asphalt to improve adhesion characteristics, cold weather performance, and tensile strength. FlexShield 1000 Coated Polyester Ply is manufactured on a high performance, non-woven polyester mat that is impregnated and coated with a superior grade of asphalt and is lightly surfaced with a mineral release agent. The polyester base mat provides excellent strength, tear and puncture resistance. FlexShield 1000 Coated Polyester Ply is pliable and will conform to most surfaces for ease of application

Uses

- FlexShield 1000 Coated Polyester Ply is designed for applications as a ply sheet or it may also be used as a base ply to construct either a cold- or hot-applied roof assembly.
- It is suitable for use in the construction of various types of membranes for both new construction and re-roofing.
- Provides additional strength when used as the first ply over nailable, non-nailable and insulated substrates.
- Performs as a venting base sheet when spot mopped over plastic foam type insulation.
- Suitable as a mid ply in multi layer systems.
- Base flashing membrane.

Advantages

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|---------------------------------------|----------------------------|
| • Weatherproof | • High tear resistance |
| • Dimensionally stable | • Thermally stable |
| • Moldable | • Good adhesion to bitumen |
| • Preformable | • No chemical binder |
| • High tensile strength per mass unit | • Non-fraying |

Installation

Coverage

Each roll is 221 square feet in size. Lapping width determines actual coverage of roll, i.e., 4" side laps provide actual coverage of 200 square feet.

Surface Preparation:

In accordance with the particular job specifications, prepare surface to be covered; e.g.: Replace areas of wet insulation, deteriorated deck and wood components. Install roof insulation, protection course, or base sheet.

As a Ply Sheet:

Plan placement of GlobalShield roofing ply to ensure that water will flow over or along, but not against exposed edges. Starting at low point of roof, apply uniform and continuous mopping of the specified hot melt or cold adhesive using standard roofing equipment, mop, or approved felt layer a Garlock Universal is recommended. To start and finish roof membrane along edges, terminations and projections, use starting/finishing strips; 13-1/2 and 27 inch wide plies for 3-ply membrane. Install GlobalShield roofing ply in shingle fashion. Overlap starter strips with first ply, then overlap each succeeding ply 27" for 3-ply system. 4-ply membranes can also be constructed. Ply sheets are marked for 3-ply construction. Embed each ply in uniform and continuous application of specified hot or cold adhesive. Ply shall never touch ply. Apply specified adhesive no more than ten feet ahead of each roll. Lightly broom plies to ensure complete adhesion. Lap ply sheet ends 6". Stagger end laps. Avoid walking on plies until adhesive has cooled or set. Install flashings as specified. Tie in previous days' work with 24" lap.

As a Base Ply:

Plan placement to ensure water will flow over or along, but not against exposed edges. As a base ply, FlexShield 1000 Coated Polyester Ply may be applied to nailable deck by using approved fasteners. Lap each sheet 4" over preceding sheet, nailing at lap no less than 9" O.C. and stagger-nailing 18" O.C., 13-3/4 inches in from each edge. Allow 6" staggered end laps for each ply. As a mopped in place base sheet, place FlexShield 1000 Coated Polyester Ply into a uniform application (3 gallons or 25 lbs \pm 20%) of the specified adhesive providing 4" side laps and 6" end laps.

See GlobalShield Specifications for additional information.

Precautions

Read MSDS and label before use. Cool weather handling characteristics - Ends tend to curl if bitumen is not hot. Precut and relaxed sections are a solution. Reducing length of mop swing and working with bitumen at proper temperature will also solve situation. Do not use as a base

sheet under torch applied systems. Extreme heat will cause Polyester Ply I to wrinkle. Deck must be properly designed and structurally sound. Ponding conditions are unacceptable and will adversely affect performance of any roofing system. For industrial/commercial use only.

SPECIFICATIONS

Property	Value	Test Method
Thickness	60 mils minimum	ASTM D 1777
Mullen Burst	180 lbs. minimum	ASTM D 774
Pliability	Pass	ASTM D 146
Grab Tensile	MD 135 lbf/in. minimum XMD 115 lbf/in. minimum	ASTM D 1682
Elongation	40% minimum	ASTM D 1682
Asbestos Content	0%	EPA 600/M4-82-020
Fire Resistance	Pass	ASTM E 108

PACKAGING INFORMATION

Product Number	Size	Quantity	Weight
960-200	2 square roll	20 rolls/pallet	2,000 lbs.

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 roof deck 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 roof deck, 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.

