

technical Information

#PM-4/PM-12/PM-40

ProTek-POLYMESH™ REINFORCING POLYESTER MESH

PRODUCT DESCRIPTION

ProTek-POLYMESH™ is a 100% polyester, spunlaced structure, entangled hydraulically to form a strong, yet conforming membrane for cold-applied asphalt and acrylic emulsions (including ceramic coatings) on uneven roof surfaces and other heat flow controlling industrial applications.

BENEFITS

The excellent conformability of the fabric makes the product perfect for irregular retrofit roofing and industrial applications. The design of the structure eliminates air pockets and allows the coatings to flow through and saturate. ProTek-POLYMESH™ is lightweight, non irritating to the skin, and is resistant to rot and mildew. It does not emit hazardous fibers as does fiberglass batt insulation.

PRODUCT USES

POLYMESH™ as part of a Roofing System:

When used with elastomerics as a part of a roofing system, the polyester reinforced seamless membrane represents a major technical advancement from the traditional asphalt and felt paper approach of build-up roofing systems. Unlike the felt paper "bridging" the unevenness of existing roofing substrates (*leaving voids which later result in bubbles and separation*), ProTek-POLYMESH™ conforms to the existing roof substrate when used with ELASTOPRIME™ -an adhesive primer - and top coated with THERMCOTE/A-5™, THERMCOTE/A-10™ and THERMCOTE/A-PW5™ Roof Coatings. The combination of fabric/acrylic emulsions adheres to the vertical parapets, plumbing vents and other roof openings without the need for mechanical fasteners and clamps. The application is lightweight and the finished surface is seamless and smooth, allowing for easy damage repair or future recoating.

APPLICATION PROCEDURE

When used as part of a system to control conducted heat flow, ProTek-POLYMESH™ provides the necessary integrity for THERMCOTE/IC™ - Industrial and Commercial - coating when insulating pipes and industrial facilities.

For roofing systems, TWO top coats of THERMCOTE/A-5™, THERMCOTE/A-10™ or THERMCOTE/A-PW5™

are required. The combination of POLYMESH™ and THERMCOTE/A-5™, THERMCOTE/A-10™ or THERMCOTE/A-PW5™ provide exceptional elongation to allow for expansion and contraction of structures. Application is EASY and special tools or expensive equipment are not needed. POLYMESH™ has a close knit which may require light brooming to insure good embedment and removal of any air pockets.

PHYSICAL PROPERTIES

Weight:	3 oz/sq/yd 100 g/sq/meter
Thickness:	.025 in
Tensile avg.:	57. lbs
Elongation:	61%
Burst strength:	176. lbs
Trapezoid Tear Strength avg.:	16. lbs

* Property values are averages and not specifications, which were determined in compliance with the test methods.

CHEMICAL RESISTANCE DATA

% Strength Retained as per ASTM-D1682-64

Chemical	Exposure at Room Temperature (hr)	% Strength Retained
Dimethyl Formamide	1,000	100
Ethylene Glycol	1,000	100
1% Sodium Hydroxide	6	100
60% Sulfuric Acid	150	100
Perchloroethylene	1,000	54
Acetone	1,000	100
Distilled Water	1,000	100
70% Nitric Acid	1,000	100
Gasoline	1,000	100
Kerosene	1,000	100

Roll sizes: 4' x 300', 12' x 300' and 40' x 324'

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