FORTRIX PMMA

PMMA FIELD RESIN

PRODUCT DESCRIPTION

Fortrix PMMA is a high-performance polymethyl methacrylate (PMMA) resin used to create seamless, fully reinforced waterproofing membranes for roofing and waterproofing applications. Its rapid-curing formulation delivers durable membrane performance for roofing and waterproofing assemblies. Designed to accommodate normal substrate movement, Fortrix PMMA liquid-applied resins are a low-maintenance alternative to traditional waterproofing systems and can be used in roofing, balconies, terraces, plaza decks, and other waterproofing applications.

TYPICAL APPLICATION

- New construction, refurbishment, and recovery roofing
- Balconies, terraces, plaza decks, and other waterproofing applications
- Detail-intensive areas, complex geometries, and vertical surfaces
- Used with Fortrix Catalyst and Fortrix Fleece as part of the reinforced membrane system

FEATURES AND BENEFITS

- Seamless, fully-adhered application supports waterproofing protection
- Reinforced membrane construction helps accommodate thermal and substrate movement
- Walkable in approximately 30 to 45 minutes for faster return to service
- Cold-weather application supports a wider installation window
- UV and chemical resistant for long-term waterproofing performance

SUITABLE SUBSTRATES

- Existing or new roofing systems
- Polymer modified roof membranes (modified bitumen)
- Metal roof systems
- Approved single-ply membranes
- Concrete
- Exterior grade plywood
- Cement board
- Steel

Primers or special precautions may be required. Contact Polyglass Technical Services for specific applications.

THICKNESS AND RECOMMENDED YIELD

Membrane Coverage Rate for 20 kg unit (44.09 lb) (approximate)

TYPE OF SUBSTRATE	COVERAGE RATE
Smooth substrates	70 ft^2 (6.5 m^2) per 20 kg unit - 0.28 kg/ft^2 (3 kg/m^2)
Normal substrates	66 ft^2 (6.1 m^2) per 20 kg unit - 0.30 kg/ft^2 (3.3 kg/m^2)
Granulated Mod Bit substrates	57 ft^2 (5.2 m^2) per 20 kg unit - 0.35 kg/ft^2 (3.8 kg/m^2)
Rough substrates	50 ft^2 (4.6 m^2) per 20 kg unit - 0.40 kg/ft^2 (4.3 kg/m^2)

See recommendations for specific applications. Yields will vary depending upon system selected and smoothness and absorbency of substrate.

APPLICATION INSTRUCTIONS

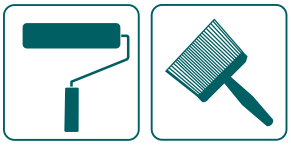
Surface Preparation:

All substrates must be clean, dry, free of oil, grease, curing compounds, release agents, laitance, gross irregularities, loose, unsound or foreign material such as moss, algae growth, dirt, ice, snow, water or any other condition that would be detrimental to adhesion of resin to the substrate. Mask perimeter and top edge of the area to be primed and flashed to provide clean lines and prevent over-painting of resins. Remove and reapply masking before resin cures and as required between coats. Apply Fortrix FP to substrate as required.

Contact Polyglass Technical Services for recommendations regarding specific applications.

Application:

Thoroughly mix the entire pail of resin for 2 to 3 minutes. Remix before each use, and prior to pouring off resin into a second container if batch mixing. Catalyze only the amount of material that can be used within 15 to 20 minutes. Add pre-measured catalyst to resin component and stir for 2 minutes using a slow-speed mechanical agitator or stirring stick.



PACKAGING

- 20 kg Pail

COLORS

White and Pebble Grey

PRODUCT CODES

- 6743420 – Pebble Grey
- 6743520 – Pebble Grey (WG)
- 6743620 – White
- 6743720 – White (WG)

RCMA ROOF COATINGS MANUFACTURERS ASSOCIATION MEMBER

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CATALYST MIXING CHART						
Catalyst Required	6% Catalyst 23 °F to 37 °F -5 °C to 3 °C) Winter Grade Only		4% Catalyst 50 °F to 68 °F (10 °C to 20 °C) SG 37 °F to 50 °F (3 °C to 10 °C) WG		2% Catalyst 68 °F to 95 °F (20 °C to 35 °C) SG 50 F to 68 °F (10 °C to 20 °C) WG	
20 kg Can	12 (0.1 kg) packets		8 (0.1 kg) packets		4 (0.1 kg) packets	
1 Liter (Approx. 1.2 kg)	7 tbsp	0.07 kg	5 tbsp	0.05 kg	2.5 tbsp	0.025 kg

1. After mixing, apply resin to substrate at a rate of 0.18 to 0.30 kg/ft² (2.0 to 3.3 kg/m²) using approved rollers or brushes. The Resin should be spread evenly onto the surface.
2. Roll Fortrix Fleece reinforcement directly into the resin, avoiding any folds and wrinkles. Use a roller to work the resin into the fleece, saturating from the bottom up. The fleece should darken in appearance, with no white spots showing. (White spots are indications of unsaturated fleece or lack of adhesion.) When required peel back fleece and apply additional resin onto the substrate, then slowly roll the fleece back into the resin, using care to remove any air pockets. It is important to correct these faults before the resin cures, or additional repairs may be required later.
3. Apply an even coat of resin over top of the in-place fleece at a rate of 0.10 kg/ft² (1.0 kg/m²) using Polyglass approved rollers. Use caution not to spread resin too thin.

This product is recommended for use at substrate and ambient temperatures between 32 °F (0 °C) and 95 °F (35 °C).

Polyglass offers a wide variety of optional surfacing treatments for aesthetic, anti-slip or mechanical wear. See individual system specifications for specific guidelines regarding application of topcoats and/or surfacing.

Working Times (at 68 °F (20 °C)):

- Pot Life: approx. 15 to 20 minutes
- Rainproof: approx. 30 to 60 minutes
- Next Coat: approx. 1 to 2 hours
- Fully Cured: approx. 3 to 6 hours

The times noted above are approximate, provided as a guideline, and may vary. Actual set times and cure should be established in the field based on actual field conditions.

Shelf Life:

Approximately 12 months when left sealed, unmixed and with proper storage.

Limitations:

- Once the resin is mixed with catalyst the product must be used immediately.
- Not approved for use with potable water.
- Do not thin.
- Do not apply to frozen or wet surfaces.
- Do not apply on exterior surfaces when there is a threat of inclement weather.
- Requires adequate ventilation

Handling:

Keep away from open fire, flame or any ignition source. Vapors may form explosive mixture with air. Avoid skin and eye contact with this material. Avoid breathing fumes. Do not eat, drink or smoke in area of application.

Refer to product Safety Data Sheet (SDS) for additional information pertaining to this product and prior to use or handling. Always store in cool and dry location. Do not store in direct sunlight or in temperatures below 55 °F (13 °C) or above 80 °F (27 °C). Approximate shelf life is 12 months when properly stored.

When work is interrupted or completed, tools must be thoroughly cleaned with Fortrix C-R before the resin hardens.

Catalyzed and cured resin may be disposed of in standard landfills.

Uncured resin is considered a hazardous material and must be handled as such, in accordance with local, state and federal regulations.

Workers should wear appropriate clothing to protect from accidental skin contact. When mixing or applying this product workers must use butyl rubber or nitrile gloves. Safety glasses with side shields are required for eye protection.

In enclosed spaces, use local exhaust ventilation to maintain worker exposure below TLV. If the airborne concentration poses a health hazard, become irritating or exceeds recommended limits, use a NIOSH approved respirator in accordance with OSHA Respirator Protection requirements under 29 CFR 1910.134. The specific type of respirator will depend on the airborne concentrations. A filtering face piece or dusk mask is not acceptable for use with this product if TLV filtering levels have been exceeded.

For Professional Use Only - Keep out of the reach of children.

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MANUFACTURING FACILITIES

- Fernley, NV
- Hazleton, PA
- Phoenix, AZ
- Waco, TX
- Winter Haven, FL

CORPORATE HEADQUARTERS

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Questions? technical@polyglass.com

Product Disclaimer: Unless otherwise incorporated into or part of a supplemental manufacturer's warranty, Polyglass warrants its product(s) against manufacturing defects that result in the material not complying with product specifications for a period of 12 months.

Refer to safety data sheet (SDS) for specific data and handling of our products. All data furnished refers to standard production and is given in good faith within the applicable manufacturing and testing tolerances. The product user, and not Polyglass, is responsible for determining the suitability and compatibility of our products for the user's intended use.

For the most current product data and warranty information, visit www.polyglass.us

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