



FLEX RS 230 LIQUID FLASHING MEMBRANE (LFM)

PRODUCT DESCRIPTION

Flex RS 230 LFM is a rapid curing, proprietary formulation polymethy methacrylate (PMMA) liquid resin. Flex RS 230 LFM is combined with Flex RS Fleece reinforcing fabric to form a flexible and monolithic, reinforced membrane used in Flex PVC roofing and waterproofing flashing applications.

PREPARATION

Using a slow speed (200 to 400 rpm) mechanical agitator, stir the entire container of resin for two minutes before each use and prior to pouring off resin into a second container if batch mixing. Pre-measure catalyst for the appropriate amount of liquid resin. Catalyze only the amount of material that can be used within 10-15 minutes. Add pre-measured catalyst to the resin component, stir catalyzed batch for two minutes before application. Refer to catalyst mixing chart for additional information. For additional primer information refer to Flex RS 276 Primer Substrate Requirements.

APPLICATION

Flex RS 230 LFM is applied via brush or roller. Prior to application, refer to published specifications and approved details for complete application instructions. The applicator is responsible for ensuring conditions are appropriate to proceed with the application.

PACKAGING

Flex RS 230 LFM is available in resealable 12 kg (26.5 lb.) cans.

STORAGE

Always store closed containers in cool, ventilated and dry location away from heat and oxidizing agent. Do not store in direct sunlight or in temperatures below 32°F (0°C) or above 77°F (25°C). Approximate shelf life is twelve months from date of manufacture when properly stored, sealed and unmixed.

HANDLING

Keep away from open fire, flame or any ignition source. Vapors may form explosive mixtures with air. Avoid skin and eye contact with this material. Avoid breathing fumes. Do not eat, drink, or smoke in the application area. Consult the Material Safety Data Sheet for additional information pertaining to this product.

COVERAGE RATES (May vary depending on substrate conditions)

Minimum total consumption	0.28 kg/ft ²	3.0 kg/m ²	72 - 86 wet mil
Base Coat	0.19 kg/ft ²	2.0 kg/m ²	50 - 60 wet mil
Top Coat	0.09 kg/ft ²	1.0 kg/m ²	22 - 26 wet mil

Weight - 12 kg (26.5 lb.)

Ambient Temperature - 23-95° F (-5 to 35°C)

Substrate Temperature - 23-122°F (-5 to 50°C)

Next Layer - 60 min. @ 68°F (20°C)

Coverage - 43 ft² per container

Pot Life - 15 min @ 68°F (20°C)

Rain Proof - 30 min @ 68°F (20°C)

Fully Cured - 3 hrs @ 68°F (20°C)

PHYSICAL PROPERTIES

<u>Property</u>	<u>Value</u>	<u>Test Method</u>
Membrane Thickness	115 mils (2.9 mm)	ASTM D 5147 Section 6
Elongation @ Peak Load (avg.)	42%	ASTM D 5147 Section 7 Peak
Load @ 73°F (avg.)	90 lbf/in (15.8 kN/m)	ASTM D 412 (dumbbell)
Elongation @ Peak Load (avg.)	55%	ASTM D 412 (dumbbell)
Shore A Hardness (avg.)	72	ASTM D 2240
Water Absorption Method I	0.5%	ASTM D 570
Water Absorption Method II	1.6%	ASTM D 570
Low Temperature Flexibility	-13°F (-25°C)	ASTM D 5147 Section 12
Dimensional Stability (max.)	< 0.1%	ASTM D 5147 Section 11
Tear Strength (avg.)	105 lbf (0.5kN)	ASTM D 5147 Section 8
Tensile Strength (avg.)	815 psi (5.6MPa)	ASTM 412
VOC Content	4.2 g/L	SCAQMD Rule 1113

CATALYST MIXING CHART - SUMMER FORMULATION

2 % Catalyst - 60°F to 95°F (15°C to 35°C)	4% Catalyst - 32°F to 59°F (0°C to 15°C)
Resin 1.0 kg - Catalyst = 0.03 kg - 3 tbsps	Resin 1.0 kg - Catalyst = 0.06 kg - 6 tbsps
Resin 12.0 kg - Catalyst = 0.35 kg - 35 tbsps	Resin 12.0 kg - Catalyst = 0.7 kg - 70 tbsps
Resin 1 liter – Catalyst = 0.035 kg - 3.5 tbsps	Resin 1 liter – Catalyst = 0.07 – 7 tbsps

CATALYST MIXING CHART - WINTER FORMULATION

2 % Catalyst - 50°F to 59°F (10°C to 35°C)	4% Catalyst - 23°F to 49°F (-5°C to 10°C)
Resin 1.0 kg - Catalyst = 0.03 kg - 3 tbsps	Resin 1.0 kg - Catalyst = 0.06 kg - 6 tbsps
Resin 12.0 kg - Catalyst = 0.35 kg - 35 tbsps	Resin 12.0 kg - Catalyst = 0.7 kg - 70 tbsps
Resin 1 liter – Catalyst = 0.035 kg – 3.5 tbsps	Resin 1 liter – Catalyst = 0.07 kg – 7 tbsps

APPLICATION & EQUIPMENT

Masking Tape, Large and small paint rollers, Paint brushes, scissors, clean mixing buckets, mixing paddle, Flex RS fleece.

- 1) Pre-cut fleece prior to application of liquid resin material.
- 2) Before start of the liquid flashing work prepare and clean areas of application and mask off application with masking tape.
- 3) Apply Flex RS 276 primer if required. (refer to substrate chart). Immediately remove masking tape. Allow primer to dry a minimum of 15 minutes.
- 4) Re-apply masking tape to mask off the flashing work area.
- 5) Determine the quantity of liquid resin required for the application and pour into a clean mixing bucket.
- 6) Add the determined amount of Flex RS catalyst powder into the resin and mix for two minutes with a low speed agitator.
- 7) Roll the catalysed liquid resin onto the prepared substrate.
- 8) Apply the previously cut fleece into the wet catalyzed liquid resin removing air bubbles and wrinkles with a roller. Any fleece overlaps require additional application of catalyzed liquid resin between the fleece layers.
- 9) Immediately roll in additional catalyzed resin, fully saturating the fleece. Visible white areas in the fleece reinforcement are evidence of too little material being applied.