

PRO MATRIX RESIN



Commercial Product Data Sheet

Product Description

Pro Matrix Resin is a high performance multi-component, fast curing, fibrated PMMA resin used for specialty flashing applications.

Product Uses

Pro Matrix Resin is designated for specialty applications on roofs and other approved substrates where application access is not practical with standard fleece-reinforced, liquid-applied flashing membranes. See the Pro Matrix Installer's Guide for more information.

Color

Pro Matrix Resin is supplied in light beige (#850012).

Packaging

Pro Matrix Resin is supplied in 10-kg (22-lb) resealable drums with locking rings.

Coverage Rates

Pro Matrix Resin is applied in a two-layer configuration in separate applications. The base coat is applied at the minimum rate of 0.285 kg/sf (0.23 l/sf) over granule-surfaced membranes and 0.19 kg/sf (0.15 l/sf) over smooth substrates. The top coat is then applied at the minimum rate of 0.14 kg/sf (0.12 l/sf).

	Density	Liquid Measure per kg
Pro Matrix	1.24 kg/liter	0.8 liter

Application Conditions

Pro Matrix Resin can be applied when the ambient temperature is between 32°F (0°C) and 95°F (35°C) and the substrate temperature is between 32°F (0°C) and 122°F (50°C). Discontinue Pro Matrix Resin application when the ambient and substrate temperature is outside the ranges listed above. Provide adequate shade over the substrate area both prior to and during application as necessary to maintain substrate surface temperatures below 122° F (50° C).

Warranty

Pro Matrix is eligible for a Pro Matrix Materials Warranty. The Pro Matrix Materials Warranty covers replacement materials necessary to correct roof leak(s) that develop in the warranted Pro Matrix materials caused by manufacturing defects. Pro Matrix is not covered under the terms of Siplast standard guarantees.

Storage

Product shelf life is 6 months from ship date. Shelf life will be reduced if product is stored at temperatures above 77°F (25°C). Store indoors in a closed container in a well-ventilated, cool, dry area away from heat, open fire, any ignition source, direct sunlight, oxidizing agents, strong acids, and strong alkalis. Do not store in temperatures below 32°F (0°C). Product may auto-polymerize at temperatures greater than 140°F (60°C). Materials stored on the job site during application should be kept on a pallet in a shaded, well-ventilated area. In unshaded areas, materials should be covered with a white, reflective tarp in a manner that allows air circulation underneath the tarp.

Handling

Do not smoke. 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 Safety Data Sheet (SDS) for additional information pertaining to this product.

Personal Protection Equipment (PPE)

Workers must wear a long sleeved shirt with long pants and work boots. Workers must use only butyl rubber or nitrile gloves when mixing or applying this product. Safety goggles are required for eye protection.

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

Mixing & Catalyzing

If batch mixing, thoroughly mix the entire drum of resin for 2-3 minutes prior to pouring resin into a second container. Catalyze only the amount of resin that can be used within the anticipated pot life. Add pre-measured catalyst to the resin, stir for 2 minutes using a slow-speed mechanical agitator or mixing stick, and apply to the substrate. The amount of catalyst needed is based on the weight of the resin used, and varies with the ambient temperature as shown in the chart on the back of this sheet.

Pot Life

Pro Matrix Resin pot life is approximately 15 minutes at 68°F (20°C). Pot life will be reduced if the resin is at higher temperatures. Pot life can be maximized by storing product under controlled conditions and ensuring that the resin is at the low range of minimum storage temperature during/following the addition of catalyst and prior to application.

Set (Cure) Times

Minimum set (cure) times noted below are approximate, and may vary. The information provided is based on laboratory conditions, and is intended for use as a guideline only. Actual set (cure) times should be established in the field, based on actual field conditions.

Rain Proof at 68°F (20°C): Approximately 30 minutes
Ready for Next Coat at 68°F (20°C): Approximately 45 minutes
Stress Resistant at 68°F (20°C): Approximately 2 hours

Tool Cleaning

When work is interrupted or completed, reusable tools must be thoroughly cleaned with Pro Prep before any catalyzed resin hardens.

Current copies of all Siplast Commercial Product Data Sheets are posted on the Siplast Web site at www.Siplast.com.

Rev 5/2015

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Pro Catalyst Mixing Chart

The amount of Pro Catalyst used with Pro Matrix Resin varies from a minimum of 2% to 6% maximum by weight, depending upon the ambient temperatures as indicated in the following table:

Resin Quantity	2% Catalyst 77°F to 95°F (25°C to 35°C)				4% Catalyst 41°F to 77°F (5°C to 25°C)				6% Catalyst 32°F to 41°F (0°C to 5°C)			
	g	kg	Tblsp.	0.1 kg Bags	g	kg	Tblsp.	0.1 kg Bags	g	kg	Tblsp.	0.1 kg Bags
1.0 kg (0.8 liter)	20	.02	2	n/a	40	.04	4	n/a	60	.06	6	n/a
5.0 kg (4 liters)	100	0.1	10	1	200	0.2	20	2	300	0.3	30	3
10 kg (8 liters)	200	0.2	20	2	400	0.4	40	4	600	0.6	60	6