

Commercial Product Data Sheet

Product Description

Pro Mortar is a high density, multi-component, fast curing, PMMA resin-based mortar. Pro Mortar is a two component product consisting of Pro Mortar Resin (Part A), a specially formulated PMMA resin, and Pro Mortar Aggregate (Part B), a specially designed aggregate. A kit of Pro Mortar consists of one pail of Part A (liquid) and two bags of Part B (aggregate). One pail of Pro Mortar Resin (Part A) is mixed with two bags of Pro Mortar Aggregate (Part B) and the mixture is then catalyzed with four (4) bags (0.4 kg) of Pro Catalyst to initiate cure.

Product Uses

Pro Mortar is used to patch concrete surfaces prior to application of the Parapro Roof Membrane System, Terapro Waterproofing and Surfacing Systems, and Terapro VTS Systems. Contact the Siplast Technical Department for other approved uses. Pro Mortar should never be used over any substrate other than prepared/primed concrete.

Color

Pro Mortar Resin is supplied as a gray color liquid. Pro Mortar (the mix of Pro Mortar Resin, Pro Mortar Aggregate, and Pro Catalyst) is a concrete gray color.

Packaging

Pro Mortar is a two-component product that requires the addition of Pro Catalyst. Pro Mortar Resin (Part A) is provided in a 8.25-kg pail, while the Pro Mortar Aggregate (Part B) is packaged in a 25-kg bag. Two bags of Part B aggregate are required per pail of Part A liquid.

Resin Weight (net): 8.25 kg (18.2 lb)

Filler Weight (net): 50 kg (110.4 lb) (2 bags @ 25 kg each)

Coverage Rates/Yield

A unit of Pro Repair Mortar (one pail of Pro Mortar Resin and two bags of Pro Mortar aggregate) yields approximately 10 board feet (10 square feet at a 1-inch thickness).

Minimum thickness (per lift): 3/8 inch (10 mm)

Maximum thickness (per lift): 2 inches (50 mm)

Installed Weight

(including Pro Catalyst) (approx.): 13 lb (5.87 kg) per bd/ft

Total thicknesses greater than 2 inches (50 mm) can be achieved by applying Pro Mortar in layers (lifts) after the previous layer has cured.

Application Conditions

All substrates must be free from gross irregularities, loose material, unsound material, foreign material (such as dirt, ice, snow, water, grease, oil, release curing/release agents, lacquers, paint coverings), or any other condition that would be detrimental to the adhesion of the Pro Mortar to the substrate. Some surfaces may require shotblasting, scarifying followed by shotblasting, or grinding to achieve a suitable substrate and surface profile. Prepared horizontal concrete substrates require priming with Pro Primer T, and vertical concrete substrates require priming with Pro Primer W prior to application of Pro Mortar.

Pro Mortar 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 Mortar application when ambient or substrate temperatures exceed the maximums noted above, or provide adequate shade over the substrate area before and during application as necessary to maintain ambient and surface temperatures below the maximums.

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 Safety Data Sheet (SDS) for additional information pertaining to this product.

Storage

The shelf life of Pro Mortar Resin (Part A) 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). Minimum Flash Point is 50°F (10°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.

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 glasses with side shields 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 of 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

Open the Pro Mortar Resin (Part A) and stir the components using a power mixer for approximately two (2) minutes to ensure that the liquid components are fully blended. Pour the entire pail of Pro Mortar Resin (Part A) into an appropriately sized mixing vessel. Using a low-speed, hand-held power mixer specifically designed for mixing mortar, stir the resin slowly while pouring both bags of Pro Mortar Aggregate (Part B) into the mixing vessel. Continue mixing until all the aggregate is wet and a homogenous, trowelable consistency is achieved. Once mixed, add four (4) bags of Pro Catalyst and mix again for two (2) minutes, ensuring that the Pro Catalyst is thoroughly dispersed. A scale should be used to measure components for partial batches.

Pot Life

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

Set Times

Minimum set 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 times and 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 Layer at 68°F (20°C): Approximately 45 minutes

Stress Resistant at 68°F (20°C): Approximately 1 hour

Tool Cleaning

When work is interrupted or completed, clean reusable tools with Pro Prep before catalyzed resin on the tools hardens.

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

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