

Underlayment - Rapid Set

Rapid Set Patching & Underlayment Compound

PRODUCT DESCRIPTION

Underlayment – Rapid Set is a fast-setting, trowel grade, single-component, polymer modified, cementitious underlayment formulated to provide a durable, uniform sub-surface with exceptional bond strength and crack resistance. It is pre-packaged for easy on-site mixing with water. Rapid Set is specifically formulated to cure in less time than traditional underlayments, allowing finished overlayers to be installed in 3 to 4 hours, making it an ideal solution for occupied space where “walk on” time is critical. This fire retardant material also provides good thermal and acoustical insulation making it suitable for use in many occupied space environments.

Underlayment – Rapid Set is an easy-to-use, versatile material that can be used as a traditional underlayment, a base mortar, or as a repair material for concrete surfaces. The incorporation of high-performance fungicides help inhibit the growth of mold and mildew, contributing to the longevity of the overall installation.

Underlayment – Rapid Set installs from a feathered edge to 3 inches (76.2mm) finished thickness and is designed for use over properly prepared plywood or concrete substrates. It can also be installed over properly prepared existing surfaces like quarry tile, flagstone, etc. Mortar layer can be sloped for additional protection against water pooling and penetration and to prevent elevation problems at doorways, landings, steps, etc. Allow 2 to 4 hours for foot traffic or continued installation of finished overlayers.

COLORS

Gray

INSTALLATION CONDITIONS

Mer-Ko underlayments must not be installed if the surface and ambient temperature is below 40°F (4.4°C) or above 120°F (48°C), or when precipitation is expected or occurring.

SUBSTRATE PREPARATION

Before using Mer-Ko underlayments, ensure proper preparation of the substrate. Clean the application area using a power sprayer, grinder, shot blaster or scarifier as required to produce a clean, sound substrate. The substrate surface must be clean, dry and free of dust and any other contaminants at the time of material application. When applicable: Use No. 26 gage bonderized steel or equivalent flashing around the perimeter; Do not use copper perimeter flashings.

APPLICATION INSTRUCTIONS

Primer Coat

For direct bond applications over concrete or plywood: Apply a primer coat of 626 Ultrabond Primer. Brush apply to all perimeter flashing and trowel apply to horizontal surface areas. Allow the primed area to dry for a minimum of 2 to 4 hours at 70°F (21°C) 50% RH, before proceeding with the finished overlay application.

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Mix one 50 lb. (22.7 kg) bag of Underlayment – Rapid Set Filler with 1 gallon (3.79 L) of water. Add the Compound powder to the water slowly during the mixing process and evaluate the material's consistency to ensure adequate workability.

Additional water or Compound powder may be needed depending upon environmental conditions at the time of application. Trowel horizontal surface areas at the desired thickness, feathered edge to 3 inches (0-76.2mm).

Screed and/or float as necessary to ensure complete coverage. Allow the material to dry for 2 to 4 hours for foot traffic; 12 hours at 70°F (21°C) 50% RH, for full service and heavy loads.

Metal Lath Reinforcement

When applicable, Install a minimum No.17, 1.5 x 1.5 inch self furred welded wire mesh (Structalath™) or optionally, 2.5 self furred galvanized expanded metal lath. For larger areas, the lath is placed as the underlayment is installed to avoid crushing/loss of the furring when walked on. Over lap wire lath a minimum 1.5 inch (one opening/square), over lap metal lath a minimum 1 inch. Do not mechanically fasten lath when used with Mer-Ko's Dual Pro 380 system. Lath overlaps are tied together at 1 ft intervals using a minimum 18 ga. galvanized annealed steel wire.

CAUTIONS & LIMITATIONS

- The substrate surface must be structurally sound, clean, dry and free of dirt, dust, oil, grease, paint or other contaminants at the time of material application.
- Concrete substrates must have a minimum compressive strength of 3,000 psi tested by “point loading” technique.
- No unapproved additives should be added to Underlayment, including additional sand or aggregate as it will affect product performance.
Do not install during inclement weather.
- When contemplating a deck installation over an unheated enclosed space (e.g., garage, etc.) provisions must be made to vent the space.

CARE & MAINTENANCE

Proper protection of the Underlayment should be provided if there will be a delay in application of the finish materials.

STORAGE & HANDLING

Store Mer-Ko Rapid Set Underlayment material in a dry environment during storage and transport. All materials should be stored in compliance with local fire and safety requirements. Always wear proper safety equipment, including particle mask, eye protection and gloves when mixing and/or applying these products.

SHELF LIFE

The shelf life is six (6) months from the date of manufacture in the original, unopened container when the material is properly stored.

WARRANTY

Limited manufacturer's defect warranty. Contact Mer-Ko Technical Service Department for specific warranty information or www.parexmer-ko.com

Product Data Sheet

Underlayment - Rapid Set

COVERAGES

Coverage rates are approximate only and can vary greatly due to surface conditions, humidity, temperature and installation techniques.

Primer Coat

Base Flashing..... 200 ft² (18.6 m²)/40lb. bag mix
Yield: 1/32" (0.8mm)

Horizontal Surface..... 160-180 ft² (15-17 m²)/40lb.
bag mix at 1/32" (0.8mm)

Underlayment

Rapid Set..... 25 ft² (2.32 m²) at 1/4 in. (6.35mm)/50 lb bag

PACKAGING

Underlayments

Rapid Set Compound..... 50 lb bag..... 22.7 kg bag

Primers

626 Ultrabond Primer..... 5 gallon pail..... 18.9 liter pail

626 Ultrabond Primer Filler..... 40 lb. bag..... 18.1 kg bag

626 Ultrabond Primer Filler Kit..... 1 gal can & 15 lb bag... 3.8L can & 6.8 kg bag

PHYSICAL CHARACTERISTICS

Adhesion..... > 550 psi
(ASTM C794)

Compressive Strength > 3,500 psi
(ASTM C109) 28 Day cure

Fire Rating..... Fire Retardant
(FTMS 105a, Method 6411)

Indentation Characteristics..... < 3%
(MIL-D-3135)

Thickness..... Feathered Edge to 3" inches
(0 to 76.2mm)

Water Absorption < 2.5%
(FTMS 501a, Method 7511)

Weight..... 1.2 lbs./ft²
at 1/8" (3.2mm)

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