



MiraPatch LM

Product Technical Data Sheet

MiraPatch LM is a two-component, polymer-modified, cementitious underlayment and embedment mortar specifically designed for the encapsulation of expanded metal lath reinforcement when installing MiraFlex II Decking System over plywood substrates. **MiraPatch LM** is also suitable for a variety of uses including underlayment for tile, carpet, other flooring finishes, concrete surface repairs, leveling and sloping. **ICC-ES, ESR-1714 Listed having UBC, Class A, One-hour Fire-resistance-rated Construction.**

WHERE TO USE

- Embedment and encapsulation of expanded metal lath
- Embedment for radiant heating elements
- Flooring underlayment over plywood and concrete
- Leveling and sloping of horizontal concrete surfaces
- Repair of concrete surface defects
- Underlayment for tile, carpet, and other flooring finishes

ADVANTAGES

- High flexural/tensile properties for excellent crack resistance
- Excellent resilience and impact resistance
- Exhibits excellent adhesive strength to concrete and plywood
- Outstanding workability and working time
- Suitable for interior and exterior applications

COVERAGE RATES

*Theoretical coverage per unit:

Expanded Metal Lath Embedment:

1.75 Lath 32.0 sq. ft. @ 3/16"

2.25 Lath 26.0 sq. ft @ 3/16"

Concrete Surface Repairs: 33.4 sq. ft. @ 1/8"

Approximate Yield/Bag = .35 CF

*For estimating purposes only, coverage rates may vary depending on methods of application, substrate types and conditions and typical allowances for waste.

PACKAGING

MiraPatch LM Liquid (5 gallon pail)

MiraPatch LM Powder (40 lb. bag)

MIX RATIO

(1) gal. MiraPatch LM Liquid to (1) 40 lb. bag of LM powder

SHELF LIFE AND STORAGE

One year from the date of manufacture as long as containers remain unopened and material is stored in a protected environment free from moisture, excessive heat, freezing temperatures, and direct sunlight.

TYPICAL PHYSICAL PROPERTIES @ 75°F (24°C)

Compressive ASTM C109	2100 psi
4 day	3950 psi
Tensile Strength ASTM C307	925 psi
Flexural Strength ASTM C580	2,400 psi
Flow at Elevated Temp. (300°F for 4 hrs.)	None
Corrosive Effect on Aluminum or Steel	None
Adhesion @ up to 1/8" thick	192 psi (Shear from steel plate)
Adhesion @ up to 1/4" thick (Shear from steel plate)	122 psi
Compression Strength Loss after Three Days	
Immersion in 140°F	4% max.
Impact Resistance	No cracking or loss of adhesion (2 lb. steel ball dropped from 8-ft height sample on steel plate)
Indentation @ up to 1/8"023"
Indentation @ up to 1/4"048"

OVERVIEW OF INSTALLATION STEPS

- **Surface Preparation** - All surfaces to receive **MiraPatch LM** must be clean, sound, and free from any bond inhibiting substances including, but not limited to, grease, oil and any other contaminants or loosely adhered materials.
For plywood substrates: plywood reinforced with expanded metal lath requires inspection and verification that the substrate is structurally sound and free of unacceptable movement. Ensure that plywood decking is adequately fastened, flashed, sloped, supported, and expanded metal lath is adequately stapled, as per industry standards.
For concrete substrates, a minimum surface profile of a CSP-3 or higher is required depending on overall substrate conditions and resurfacing requirements. Concrete and other porous or absorptive substrates should be **(SSD) saturated surface dry** with no standing water at the time of the application.
- **Mixing** – **MiraPatch LM** must be mixed mechanically with a low-speed drill and “Jiffy-type” or similar Miracote-approved mixing paddle in a clean mixing container. Pre-mix liquid component first to re-disperse any polymer solids that may have settled on the bottom of the pail. When mixing **MiraPatch LM** always pour the liquid component into the mixing pail first and slowly add the powder component. Thoroughly mix the powder and liquid until a homogeneous and smooth consistency is achieved that is free of lumps and pockets of dry powder. Mix for a maximum of 3 minutes, as over-mixing will entrap excessive air which can negatively impact design strengths and shorten workable time.
- **Application** – **MiraPatch LM** can be applied using conventional tools and equipment. Trowel or screed over properly primed concrete, or plywood and expanded metal lath for complete and uniform encapsulation.

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FOR BEST RESULTS

- Always install a minimum 4' by 4' test area or job site mock-up for owner approval of acceptable color, texture, finish adhesion and any other critical requirements prior to proceeding with the installation.
- Verify that the most current versions of product technical data sheets (PTDS), color charts, material safety data sheets (SDS), and installation guidelines (IG) are being utilized for project submittals and application reference.
- Refer to all Miracote published documentation pertaining to MiraFlex II Decking System where *MiraPatch LM* is most typically used.
- Protect materials at all times from excessive heat and cold before and during application.
- Precondition liquid and powder components between 55°F(4.5°C) to 80°F(4.5°C) prior to mixing and application.
- The proper application of this product is the sole responsibility of the end user. Job site visits by Miracote representatives are only for the purpose of making recommendations. Supervision and quality control are the sole responsibility of the installer.
- Measure surface and ambient temperatures to ensure that material is only applied when temperatures are 40 F (4.5 C) and rising during placement and cure time.
- Condition the concrete substrate with MiraPrime Aqua-Blok XL to minimize the potential for efflorescence migration and mitigate the corrosion of reinforcing steel at a 95% confidence limit as tested per the U.S. Bureau of Reclamation M-82 Standard Protocol to Evaluate the Performance of Corrosion Mitigation Technologies.

LIMITATIONS

- May reflect moving cracks and control joints. Implement detail as per current published installation guidelines (IG's).
- Staining, streaking and efflorescence may occur when fresh coating is exposed to excessive ponding or running water.
- Prevent any contact with aluminum which can cause an adverse reaction in the presence of moisture due to MiraPatch LM's cementitious content.

LIMITED WARRANTY

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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