



PRO BLOCK™ MMS

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

PRO BLOCK™ MMS is a two-component, **solvent-free**, 100% solids epoxy-based moisture management **one-coat** system sealer designed to: (1) Protect flooring system up to 100% RH as per ASTM F-2170; (2) Reduce moisture vapor emission rate of a concrete substrate up to 25 lbs/1,000 sq. ft. per 24 hours down to less than 3 lbs/1,000 sq. ft. per 24 hours in a single coat as per ASTM F-1869; and (3) Resist pH levels up to 14 as per ASTM F-710. PRO BLOCK MMS applies easily with a squeegee or roller, dries quickly with up to a 30 minute pot life for improved working time and emits no VOC making it an environmentally friendly product. PRO BLOCK MMS can also be used as a bonding agent for self-leveling toppings and self-leveling underlayments (up to 50 mm [2"] thick) when used with sand broadcasting.

Features

- ♦ Use to dramatically reduce moisture emissions from concrete substrates up to 25 lbs/1,000 sq. ft. per 24 hours down to less than 3 lbs/1,000 sq. ft. per 24 hours in a single coat
- ♦ Creates a high-performance bonding agent for self-leveling toppings and self-leveling underlayments (up to 50 mm [2"] thick) when used with sand broadcasting
- ♦ Dries quickly (12 hours at 23°C [73°F] and 50% RH)
- ♦ For interior institutional, commercial and residential applications
- ♦ Applies easily with a squeegee or roller in one coat
- ♦ Resists pH levels up to 14
- ♦ No VOC
- ♦ Contributes to LEED® objectives and requirements

Packaging

7.56 L (2 US gal) size
Part A: 3.78 L (1 US gal)
Part B: 3.78 L (1 US gal)



Suitable Substrates

- ♦ Concrete (at least 7 days old) and free of curing agents

Limitations

- ♦ For INTERIOR installations only.
- ♦ Do not install at temperature below 15°C (59°F) or above 30°C (86°F).
- ♦ Do not use directly over gypsum-based leveling and patching compounds, old carpet adhesive left-over, cut-back adhesive residue or over existing hard and soft flooring such as ceramic floor tile, quarry tile, vinyl sheet good, VC tile, linoleum, terrazzo, etc.
- ♦ Do not use if there is a curing agent sealer on the concrete substrate.
- ♦ PRO BLOCK MMS is not an adequate bonding surface by itself. The sand broadcasting method must be used to create a sufficient bonding surface for the application of self-leveling toppings (see "Application as a Bonding Agent [Sand Broadcasting Method]"). This method can also be used for self-leveling underlayments. The sealed surface must be primed with PRO SUPERPRIME™ or PRO SUPERPRIME 1C to create an adequate bonding surface for cementitious tile mortars, screeds, patching compounds and most flooring adhesives (see respective technical data sheets for details).
- ♦ Do not use this product as a floor finishing primer or surface sealer or without covering it over with a floor covering material.
- ♦ Not for use in areas subject to negative hydrostatic pressure.

4. TECHNICAL DATA

WORKING PROPERTIES (@23° C [73° F] and 50% RH)

Pot life	30 minutes
Drying time	12 hours

PHYSICAL PROPERTIES (@23° C [73° F] and 50% RH)

VOC content	0 g/L
Flash point	>100°C (212°F)
Water vapor transmission reduction (ASTM E 96-95)	>95%
Water vapor permeance (ASTM E 96-95)	1.2 x 10 ⁻⁸ g/Pa x s x m ² 0.21 perm
Water vapor transmission reduction (ASTM F1869)	>95%
Alkaline resistance (ASTM D1308 - 14 days direct contact @ pH 14)	Passed
Approximate coverage per 7.56 L (2 US gal) – @ a profile of CSP 3 <i>Note: Rough surfaces could reduce the coverage per gal.</i>	27.9 m ² (300 ft ²)
Approximate coverage per 7.56 L (2 US gal) – @ a profile of CSP 3-9 using sand broadcasting <i>Note: Rough surfaces could reduce the coverage per gal.</i>	21 m ² (225 ft ²)
Shelf life	12 months if kept in its original unopened packaging and stored in a warm, dry location.



Concrete





5. INSTALLATION

Surface Preparation

(Refer to PROMA Surface Preparation Guidelines for complete details)

- Surfaces must be clean and free of dust, oil, grease, paint, tar, wax, curing agent, primer, sealer, form release agent or any deleterious substance and debris which may prevent or reduce adhesion.
 - Acids, concentrated alkaline conditions and cleaning chemical residues must be neutralized or removed.
 - All concrete substrates must be at least 7 days old, solid, sound, slightly textured and have a direct tensile cohesive strength greater than 1.2 MPa (175 psi) when tested in accordance with ACI 503 R – (Appendix A) procedure.
 - For non-porous concrete substrates, use mechanical preparation. Smooth concrete substrate surfaces must be mechanically prepared in accordance with an engineer-approved procedure (Shot-blasting, scarification, grinding, sand or water-blasting, etc.) to completely remove all paint, loosely bonded toppings, loose particles and contaminants and to provide sufficient surface texture and profile (ICRI CSP 3 for adequate bonding of PRO BLOCK MMS, CSP 3-9 for adequate bonding of PRO BLOCK MMS when sand broadcasting).
 - Existing concrete slabs with old cutback adhesive or carpet adhesive **residues** must be scraped and mechanically roughened in accordance with an engineer-approved procedure (shot-blasting, scarification, grinding, sand or water-blasting) to provide sufficient surface texture and profile (ICRI CSP 3 for adequate bonding of PRO BLOCK MMS, CSP 3-9 for adequate bonding of PRO BLOCK MMS when sand broadcasting).
- Do not use sweeping compounds. This could leave an oily film on the concrete surface that will prevent a proper bond.

Mixing and Application

- Use clean mixing-tools and containers.
- Pour Part A and Part B into a clean, proper-sized mixing container.
- Using a mechanical mixer (300-500 RPM), mix until a homogeneous consistency is achieved. Do not over-mix or allow air into the mixture.
- Apply PRO BLOCK MMS with a squeegee or a roller making sure to cover the surface evenly leaving no gaps. Apply product using a coverage of approximately 27.9 m² (300 ft²) to achieve desired performance.

Application as a Bonding Agent (Sand Broadcasting Method)

Note: PRO BLOCK MMS is not an adequate bonding surface by itself. The sand broadcasting method must be used to create a sufficient bonding surface for the application of self-leveling toppings. This method can also be used for self-leveling underlayments. The sealed surface must be primed with PRO SUPERPRIME or PRO SUPERPRIME 1C to create an adequate bonding surface for cementitious tile mortars, screeds, patching compounds and most flooring adhesives (see respective technical data sheets for details).

- Apply PRO BLOCK MMS using a squeegee or roller making sure to cover the surface using a 11-16 mil thickness (approximately 21 m² [225 ft²]).
- Using a clean, oven-dried sand that has a mesh size from 20 to 35 and is free of fines, and while the PRO BLOCK MMS is still in a fresh state (maximum 20 minutes), broadcast sand consistently over the entire area. Apply approximately 5 kg of sand/1 m² (1 lb/1 ft²).
- Once the sand broadcast is complete, avoid all general traffic over the surface for a minimum of 12 hours.
- After 12 hours, broom sweep and vacuum the surface to remove all loose sand. Check for any bare spots and reapply product plus sand in those areas.

Expansion and Control Joints

- Cracks and voids should be completely cleaned (contaminated cracks must be cut out to a depth of 1/4" x 1/4" to remove any contamination from the side walls), and repaired using a PROMA repair mortar, such as PRO CEMIX™, or an appropriate mixture of PRO BLOCK MMS with self-leveling powder. **Please contact our Technical Service Department for appropriate recommendations.**
- DO NOT FILL EXPANSION JOINT SPACE until completion of the job.
- Install a suitable industry-approved compressible bead and flexible sealant to caulk expansion and control joints. Follow the sealant manufacturer's installation instructions..
- Install and space expansion and control joints in all directions in accordance with TCNA HANDBOOK FOR CERAMIC TILE INSTALLATION Detail #EJ-171 recommendations, or TTMAC Specification Guide 09 30 00 Detail #301-MJ recommendations.

Drying Time

- Protect surface for 12 hours after application to allow product to fully dry. If pin holes appear after drying, application of a second coat may be required.

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Cleaning

Clean tools and hands with mineral spirits while the product is still fresh.

Health and Safety

Refer to the Material Safety Data Sheet (MSDS) for complete details.

6. AVAILABILITY AND COST

PROMA products are widely available in Canada and the Northeast United States. To find a distributor of PROMA products, call **toll-free: 1.866.51.PROMA (77662).**

7. WARRANTY

PROMA warrants that this product is manufactured using quality raw materials and is of merchantable quality and suitable for the purpose for which it was intended. PROMA's liability under this warranty shall be limited to the replacement of its product proven to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising from the use of/or the inability to use this product.

8. MAINTENANCE

Product requires no special maintenance. Do not leave without floor covering or exposed as a resurfacing material.

9. TECHNICAL SERVICE

For more detailed information on this product, please contact our technical department for proper recommendations and job field assistance. **Toll-free: 1.866.51.PROMA (77662).**

10. FILING SYSTEM

Additional information is available upon request, or by visiting www.proma.ca.

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