



# 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.

### 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
- ◆ 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.
- ◆ 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 <sup>-8</sup> g/Pa x s x m <sup>2</sup> 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 <sup>2</sup> (300 ft <sup>2</sup> )
Shelf life	12 months if kept in its original unopened packaging and stored in a warm, dry location.

## 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 the adequate bonding of PRO BLOCK MMS.



Concrete



## Mixing and Application

1. Use clean mixing-tools and containers.
2. Pour Part A and Part B into a clean, proper-sized mixing container.
3. Using a mechanical mixer (300-500 RPM), mix until a homogeneous consistency is achieved. Do not over-mix or allow air into the mixture.
4. 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 37 m<sup>2</sup> per 7.56 L (400 sq. ft. per 2 US gal) to achieve desired performance.

## 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.

**Note: PRO BLOCK MMS is a sealer, which is not a suitable bonding surface for cementitious tile mortars, screeds, patching compounds, self-leveling underlayments, and most flooring adhesives. To achieve an adequate bond to the substrate, sealed surfaces must be primed with PRO SUPERPRIME or PRO SUPERPRIME 1C prior to the installation of tile or floor coverings (see respective technical data sheet for details).**

## 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](http://www.proma.ca).

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