



PRO BOND™

2. MANUFACTURER

PROMA Adhesives Inc.

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3. PRODUCT DESCRIPTION

PRO BOND™ is a high-quality, single-component, dry-set mortar designed for the interior installation of non-vitreous, semi-vitreous, and vitreous ceramic tiles. **Mix PRO BOND with undiluted PRO BOND PLUS for interior and exterior bonding of porcelain, glass tile, most marble and granite over conventional and non-conventional substrates.**

Features

- ◆ For setting non-vitreous, semi-vitreous, and vitreous ceramic tiles
- ◆ For setting marble and granite dimension stone
- ◆ Ideal for use with uncoupling membranes and sheet-applied waterproofing membranes when a non-modified dry-set mortar is required
- ◆ For setting porcelain tiles when used in conjunction with uncoupling and sheet-applied waterproofing membranes when a non-modified dry-set mortar is required
- ◆ Qualifies as part of PROMA's LIMITED WARRANTY PROGRAM up to a LIFETIME when mixed with PRO BOND™ PLUS (contact PROMA for details)
- ◆ For INTERIOR installations
- ◆ For institutional, commercial and residential concrete floor and wall applications
- ◆ Meets or exceeds ANSI A118.1 requirements
- ◆ Contributes to LEED® objectives and requirements

Packaging

22.7 kg (50 lb) plastic bag, grey and white



When mixed with PRO BOND™ PLUS

When mixed with PRO BOND™ PLUS



Suitable Substrates

- ◆ Dry, completely cured concrete (at least 28 days old)
- ◆ Concrete and masonry blocks
- ◆ Cement backer units (CBU)
- ◆ Cementitious screeds, rendering, leveling coats and mortar beds
- ◆ Gypsum wallboard (INTERIOR dry areas only)
- ◆ Uncoupling membranes (INTERIOR use only)
- ◆ Sheet-applied waterproofing and vapor retarder membranes complying to ANSI A118.10 norm (INTERIOR use only)

Limitations

- ◆ Do not use at temperatures below 10°C (50°F) or above 35°C (95°F).
- ◆ Do not apply directly over plywood, particleboard, chipboard, presswood, Luan, masonite, OSB, Gypsum-based leveling and patching compounds and all dimensionally unstable or non-recommended substrate materials.
- ◆ Do not use for the installation of green marble and other moisture sensitive stones that react to standard cement mortars and setting materials containing water. Instead, for setting these stones use **EXCLUSIVELY** PRO GROUT™ XTREME or PRO SEAL & SET™ 100 NS (see the respective technical data sheet for more details). For the installation of white, pastel or translucent marble, use PRO BOND™ White with PRO BOND™ PLUS additive or a White polymer-modified thin-set mortar, such as PRO FLEX® SET White, PRO FLEX® White or better.
- ◆ Do not use for installing glass tiles. For such installation, set tiles instead with PRO HPX® or PRO SUPERLITE™ MORTAR (see respective technical data sheets for more details). **Note:** If the glass tile has an epoxy finish backing and no synthetic mesh, set tiles exclusively with PRO GROUT XTREME™ White (see respective technical data sheet).
- ◆ Do not use for installations submitted to prolonged water contact, immersion or high humidity level (e.g. pools, gang showers, fountains, steam rooms, spas, etc.) In such cases, set tiles instead with a mixture of PRO BOND and PRO BOND PLUS additive (see PRO BOND™ PLUS SYSTEM respective technical data sheets for more details).
- ◆ Do not use where high moisture and hydrostatic conditions and/or recurring moisture problems exist.
- ◆ Do not use for installing porcelain tiles unless used with an uncoupling or sheet-applied waterproofing membrane when a non-modified dry-set mortar is required.



Concrete

Uncoupling Membranes

4. TECHNICAL DATA

Applicable Standards

For Additional Information, please refer to the most recent TCNA handbook for ceramic tile installation or the TTMAC Specification Guide 09 30 00 Tile Installation Manual, or visit our website at www.proma.ca.

PHYSICAL PROPERTIES (@23° C [73° F] and 50% RH)	
Pot life	≥ 1 hour
Open time	≥20 minutes
Initial set	16-18 hours
Final set	28 days
Adjustability	35-45 minutes

MECHANICAL PROPERTIES (@23° C [73° F] and 50% RH)	
VOC content	0 g/L
Shelf life	24 months if kept in its original unopened packaging and stored in a dry location.

Approximate coverage per 22.7 kg (50 lb) bag	
Notched trowel	Coverage
6 x 6 x 6 mm (1/4" x 1/4" x 1/4")	80 ft ² (7.5 m ²)
6 x 10 x 6 mm (1/4" x 3/8" x 1/4")	65 ft ² (6.0 m ²)

5. INSTALLATION

Surface Preparation

(Refer to PROMA Surface Preparation Guidelines for complete details)

Note: PRO SUPERPRIME™ 1C or PRO SUPERPRIME™ can be used to ready nearly any surface for PROMA setting materials without the need for scarifying or shotblasting, saving valuable time and money (see respective technical data sheet for details).

- ◆ All supporting surfaces must be structurally sound, solid, stable, level, plumb and true.
- ◆ 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 completely cured (at least 28 days old) and slightly textured.
- ◆ On grade or below grade concrete slabs must be installed over an effective vapor barrier.
- ◆ All concrete substrates must be dry and free of hydrostatic conditions and/or extreme moisture problems. Perform a calcium chloride moisture emission test (ASTM F-1869) on the concrete substrate before proceeding with the installation of the floor.
- ◆ Smooth concrete substrate surfaces must be either PRIMED with PRO SUPERPRIME or PRO SUPERPRIME 1C primer OR mechanically roughened in accordance with an engineer-approved procedure (shotblasting, scarification, grinding, sand or waterblasting, etc) to provide sufficient surface texture and profile for adequate bonding of the product.

Mixing

Mixing ratio: 2 1/3 parts powder to 1 part water

1. Use clean mixing-tools and containers.
2. In a clean mixing container, measure and pour **5.9 L [6.2 quarts / 1.56 US gal]** of cool clean water and gradually add 22.7 kg (50 lb) of PRO BOND powder mix, while mixing slowly.
3. Using a low-speed mechanical mixer (150 - 300 rpm), mix until a homogeneous, smooth, lump-free, consistency is achieved.
4. Let the mortar sit approximately 10 minutes; remix without adding any more water or powder-mix.
5. The product is now ready for setting.
6. During the setting, keep the mortar-mix fresh & smooth by periodically re-stirring the content inside the bucket without ever adding water.
7. Clean tools and hands with water while the mortar is still fresh.

Note: PRO BOND mixed with water is an unmodified thin-set mortar conforming to ANSI A118.1, meeting the requirements for installation of uncoupling membranes and sheet-applied waterproofing membranes when a non-modified dry-set mortar is required.

Application

1. Pressure-apply the mortar with the flat edge of the recommended notched-trowel to promote a positive bond and completely cover the substrate. *When used over an uncoupling membrane, completely fill the cavities of the surface prior to installing the tile.*
2. IMMEDIATELY AS YOU GO (without delay) and before skinning or drying occurs, apply a sufficient mortar layer and, using the notched side of the trowel, ridge in a straight-line directional pattern to achieve an even setting bed. For walls, maintain ridges running in a horizontal directional pattern.
3. Do not spread more mortar than can be covered with tiles within 20 minutes (Approx. 20 sq ft [2 m²]).
4. If the mortar dries or skins-over, it must be removed and replaced with fresh mortar.
5. Place tiles firmly with a slight back and forth motion across ridges and tamp tiles repeatedly to achieve at least an 85% mortar contact with the tile back.
6. Tiles should be embedded in the mortar to at least 1/3 of their thickness.
7. Remove excess mortar from grout space and wipe-off blotches and smears immediately while mortar is fresh.

Note: All expansion and control joints must be carried through from substrate to final flooring and filled with an industry-approved flexible sealant in accordance with ANSI A108.01 and TCNA detail EJ171 or TTMAC detail 301MJ. Do not fill or cover expansion and control joints with installation material. Contact PROMA's technical department for additional information.



Curing and Grouting

- ◆ Do not step on floors and protect area from foot traffic for at least 24-48 hours, depending on temperatures and humidity conditions.
- ◆ Protect walls from impact and vibration for at least 24 hours.
- ◆ Allow at least 16-24 hours from installation before grouting tiles.

Note: Extended protection and downtime requirements before grouting may be required depending on temperature and humidity conditions and on the porosity and size of the tile or stone being installed.

Cleaning

Clean tools and hands with water while the mortar is still fresh.

Health and Safety

Refer to the Safety Data Sheet (SDS) 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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