



# PRO BOND™ PLUS SYSTEM

## 2. MANUFACTURER

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## 3. PRODUCT DESCRIPTION

The PRO BOND™ PLUS SYSTEM is a premium-quality, two-component, high-performance solution for installations requiring extreme bond strength and flexibility. Interior or exterior, freeze/thaw, high-traffic, water-submerged... nearly any environment is suitable for the PRO BOND PLUS SYSTEM. Install tile or stone of almost any type over the widest range of substrates. **Strong, yet extremely flexible, the PRO BOND PLUS SYSTEM is a great solution for the toughest installations. When in doubt? You can't go wrong with the PRO BOND PLUS SYSTEM.**

### Features

- ♦ Use over the widest range of suitable substrates
- ♦ Install most types of tile and stone
- ♦ Qualifies as part of PROMA's LIMITED WARRANTY PROGRAM up to a LIFETIME (contact PROMA for details)
- ♦ Use for interior, exterior, freeze/thaw, water-submerged, and other demanding installations such as pools, shopping malls, airports, etc.
- ♦ For institutional, industrial, commercial and residential floor and wall applications
- ♦ For use over a radiant floor heating system
- ♦ Exceeds ANSI A118.4 and ANSI A118.11 requirements
- ♦ Contributes to LEED® objectives and requirements

### Packaging

The PRO BOND PLUS SYSTEM is PRO BOND (powder) + PRO BOND PLUS (additive)

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

PRO BOND PLUS: 7.5 L (2 US gal) pail; 20 L (5.3 US gal) pail



### 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
- ♦ PROMA's PRO MBR XD, waterproofing and PRO CBM 2, crack-isolation membranes
- ♦ Gypsum wallboard (INTERIOR dry areas only)
- ♦ Double layered EXTERIOR Grade Douglas Fir Plywood, certified CANPLY (SELECT) or (SEL-TF) CSA 121, minimum 32 mm (1 1/4") total thickness, for INTERIOR Residential Light-duty Floors and countertops, in dry areas only.
- ♦ Existing ceramic tiles (interior use only)\*
- ♦ Cementitious Terrazzo floors\*
- ♦ Old Cut-back adhesive residue\*
- ♦ Existing VAT and VCT tiles, and non-cushioned vinyl sheet goods\*

\* With adequate prior preparation as indicated in PROMA's "SURFACE PREPARATION GUIDELINES"



Concrete

Exterior-Grade Plywood

Cutback Adhesive Residue

Existing VAT, VCT and Non-Cushioned Vinyl Sheet Goods

Existing Tile





## Limitations

- Do not use at temperatures below 10°C (50°F) or above 35°C (95°F).
- Do not apply directly over particleboard, chipboard, presswood, Lauan, 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 PLUS SYSTEM White.
- Do not use for installing glass tile with an epoxy finish backing and no synthetic mesh. For such installation, use PRO GROUT XTREME White instead (see respective technical data sheet for details).
- Do not use where high moisture and hydrostatic conditions and/or recurring moisture problems exist.
- When using the PRO BOND PLUS SYSTEM over a radiant heating system (previously checked for good functioning), turn the system off 24 hours prior to the installation and wait at least 2 weeks before turning it back on.

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

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

Pot life	≥ 1 hour
Open time	≥15 minutes
Initial cure	16-18 hours
Final cure	28 days
Adjustability	35-45 minutes
Time required before water immersion (once grouted)	>14 days

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

VOC content	
Latex and powder (as a system)	0 to 6.08 g/L
Latex (only)	20.40 to 23.60 g/L
Shear strength per ANSI A118.4 and A118.1 tests (at 28 days)	
Quarry tile to plywood	350 psi (2.42 MPa)
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")	7.5 m² (80 ft²)
6 x 10 x 6 mm (1/4" x 3/8" x 1/4")	6.0 m² (65 ft²)
19 x 16 x 8 mm (3/4" x 5/8" x 5/16") U-notch trowel	2.5 m² (27 ft²)

## 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.
- For ceramic and porcelain tiles up to 30 x 30 cm (12" x 12"), the structural design of the wood substrate must not allow a deflection greater than L/360 when tested to 136 kg (300 lb) concentrated loads in accordance with ASTM C627 Standard test method. For square and rectangular tiles with one edge dimension 38 cm (15") and 45 cm (18") up to 58 x 58 cm (23" x 23") the maximum deflection should not exceed L/540 unless an effective CIM (crack isolation membrane) is used in the installation system. **For tiles 60 x 60 cm (24" x 24") or larger and for ALL dimension stone installation, the maximum deflection must not exceed L/720.**

### Mixing

- Use clean mixing-tools and containers.
- In a clean mixing container, measure and pour **7.5 L [2 US gal] of PRO BOND PLUS Additive** and gradually add 22.7 kg (50 lb) of PRO BOND powder mix, while mixing slowly.
- Using a low-speed mechanical mixer (150 - 300 rpm), mix until a homogeneous, smooth, lump-free, consistency is achieved.
- Let the mortar sit approximately 10 minutes; remix without adding any more water or powder-mix.
- The product is now ready for setting.
- During the setting, keep the mortar-mix fresh & smooth by periodically re-stirring the content inside the bucket without ever adding water or PRO BOND PLUS Additive.
- Clean tools and hands with water while the mortar is still fresh.

### Application

- Pressure-apply the mortar with the flat edge of the recommended notched-trowel to promote a positive bond and completely cover the substrate.
- 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.
- Do not spread more mortar than can be covered with tiles within 20 minutes (Approx. 20 sq ft [2 m²]).
- If the mortar dries or skins-over, it must be removed and replaced with fresh mortar.
- 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 (95% in wet areas, commercial floors and exterior installations and, 100% for natural stone installation).
- Tiles should be embedded in the mortar to at least 1/3 of their thickness.
- 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 water contact, impact and vibration for at least 24 hours.
- ♦ Allow at least 16-24 hours from installation before grouting tiles.
- ♦ Protect all new installation from weather and freezing for at least 14-21 days.

**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 product 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](http://www.proma.ca)**.



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