



---

**Commercial Order Desk:**

P 613 244 3773

F 613 244 8553

E [order@eurotilestone.com](mailto:order@eurotilestone.com)

**General Inquiries:**

P 613 244 4315

F 613 244 4320

E [info@eurotilestone.com](mailto:info@eurotilestone.com)

---

3103 Hawthorne Rd | Ottawa, Ontario K1G 3V8

Connect with us on:



<http://eurotilestone.com/>



# PRO SET SF™ SAG-SLUMP RESISTANT

## 2. MANUFACTURER

### PROMA Adhesives Inc.

9801, Parkway, Anjou, Quebec Canada H1J 1P3

Tel.: 514.852.8585


Fax: 514.852.8225

Toll-free: 1 866.51.PROMA (77662)


Email: info@proma.ca

Web: www.proma.ca

## 3. PRODUCT DESCRIPTION

PRO SET SF is a high-quality, sag-slump resistant dry-set mortar designed for the interior installation of large/heavy format non-vitreous, semi-vitreous and vitreous ceramic tiles. PRO SET SF can be used for the installation of porcelain tile when used in conjunction with an uncoupling membrane, such as Schluter®-DITRA .


### Uses

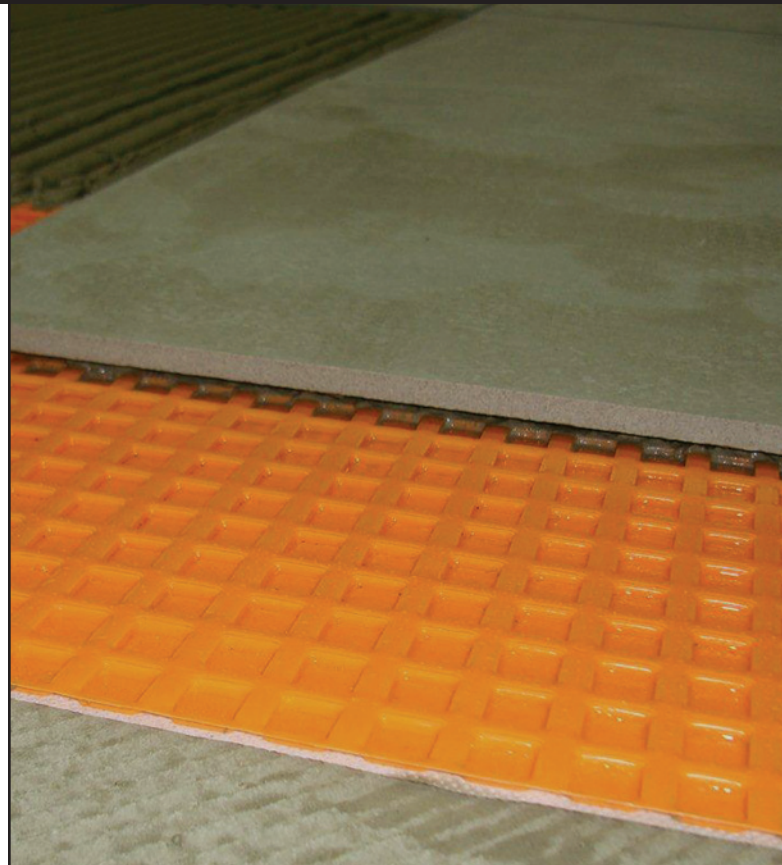
- ♦ For sag-slump resistant wall, floor and countertop installations of large/heavy format tile and stone
- ♦ For setting non-vitreous, semi-vitreous, vitreous ceramic tiles, pavers and quarry tiles
- ♦ For setting marble and granite dimension stones (see LIMITATIONS)
- ♦ For setting porcelain tiles when used in conjunction with Schluter®-DITRA  uncoupling membrane
- ♦ Builds up to 3/4"(19 mm) thickness for non-slump medium-bed applications
- ♦ For INTERIOR installations
- ♦ Meets or exceeds ANSI A118.1 requirements when mixed with water
- ♦ Contributes to LEED® objectives and requirements

### Packaging and Colors

22.7 kg (50 lb) bag; grey and white

### Suitable Substrates

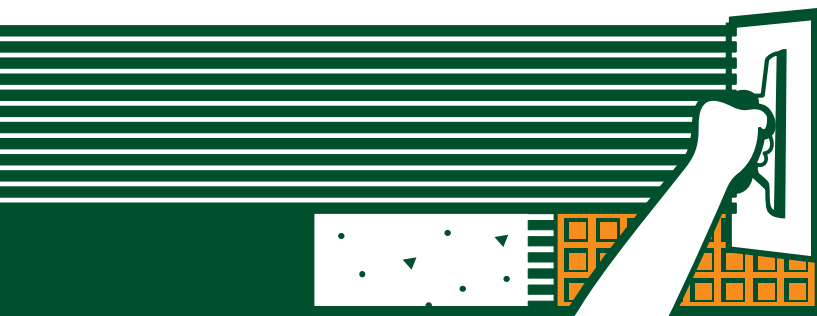
- ♦ Dry, completely cured concrete (at least 28 days old)
- ♦ Concrete and masonry blocks
- ♦ Cement backer units (CBU)
- ♦ Cementitious screeds, rendering, leveling coats and mortar beds
- ♦ Gypsum wallboard (INTERIOR dry areas only)
- ♦ Schluter®-DITRA uncoupling membrane 



(Schluter®-DITRA not included.)

### Limitations

- ♦ For setting EXTRA-LARGE/EXTRA-THIN units (above 24"x24" [60x60 cm] and less than 3/16" [5 mm ] thickness), please contact our Technical Service Department for appropriate recommendations.
- ♦ Do not use at temperatures below 10°C (50°F) or above 35°C (95°F).
- ♦ Do not use for thick bed method.
- ♦ Do not apply directly over plywood, 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 the installation of white, pastel or translucent marble, use only White PRO SET SF.



Concrete

Schluter®-DITRA

DITRA is a registered trademark of Schluter®-Systems KG. Use of this trademark by PROMA is permitted by Schluter®-Systems.





## Limitations (continued)

- ♦ Do not use for installing Glass tiles. For such installation, set tiles instead with a mixture of PRO HPX™ or PRO SUPERLITE™ MORTAR (see respective technical data sheets for details).
- ♦ 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, or PRO QUICK and PRO QUICK PLUS additive, or PRO HPX™ (see respective technical data sheets for 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 a Schluter®-DITRA uncoupling membrane.

**NOTICE: Consult the uncoupling membrane manufacturer for suitability for exterior applications.**

## 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).

WORKING PROPERTIES (@23° C [73° F] and 50% RH)	
Pot life	≥ 1 hour
Open time	≥20 minutes
Initial set	24 hours
Final set	28 days

PHYSICAL PROPERTIES (@23° C [73° F] and 50% RH)	
VOC content	0 g/L
<b>Shear strength per ANSI A118.1 tests (at 28 days)</b>	
Quarry tile	>235 psi (1.62 MPa)
Wall tile	>360 psi (2.48 MPa)
Mosaic	>290 psi (2.00 MPa)
<b>Approximate coverage per 22.7 kg (50 lb) bag</b>	
<b>Notched trowel</b>	<b>Coverage</b>
6 x 10 x 6 mm (1/4" x 3/8" x 1/4")	6.0 m <sup>2</sup> (65 sq. ft.)
12 x 12 x 12 mm (1/2" x 1/2" x 1/2")	3.7 m <sup>2</sup> (40 sq. ft.)
19 x 14 x 10 mm (3/4" x 9/16" x 3/8") U	3.2 m <sup>2</sup> (35 sq. ft.)
<b>When used over Schluter®-DITRA uncoupling membrane to bond tiles </b>	
<b>Notched trowel</b>	<b>Coverage</b>
6 x 10 x 6 mm (1/4" x 3/8" x 1/4")	3.9 m <sup>2</sup> (42 sq. ft.)
12 x 12 x 12 mm (1/2" x 1/2" x 1/2")	2.8 m <sup>2</sup> (30 sq. ft.)
19 x 14 x 10 mm (3/4" x 9/16" x 3/8") U	2.5 m <sup>2</sup> (27 sq. ft.)
<b>When used over Schluter®-DITRA XL uncoupling membrane to bond tiles </b>	
<b>Notched trowel</b>	<b>Coverage</b>
6 x 10 x 6 mm (1/4" x 3/8" x 1/4")	3.0 m <sup>2</sup> (32 sq. ft.)
12 x 12 x 12 mm (1/2" x 1/2" x 1/2")	2.2 m <sup>2</sup> (24 sq. ft.)
19 x 14 x 10 mm (3/4" x 9/16" x 3/8") U	2.0 m <sup>2</sup> (22 sq. ft.)
<b>Shelf life</b>	
12 months if kept in its original unopened packaging and stored in a dry location.	

## 5. INSTALLATION

### Surface Preparation

(Refer to PROMA Surface Preparation Guidelines for complete details)

- ♦ All supporting surfaces must be structurally sound, solid, stable, level, plumb, level and true to a tolerance in plane of 1/4" in 10'-0" (6 mm in 3 m) in accordance with ANSI A108 Specifications requirements.
- ♦ 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), 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.
- ♦ 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 mechanically roughened 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 for the adequate bonding of the subsequent leveling and/or tile setting mortar products.

### Mixing


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

1. Use clean mixing-tools and containers.
2. In a clean mixing container, measure and pour **5.7 L (6 quarts / 1.5 US gal)** of cool clean water and gradually add 22.7 kg (50 lb) of PRO SET SF 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 inside of the bucket without ever adding water.
7. Clean tools and hands with water while the mortar is still fresh.

**Note:** PRO SET SF mixed with water is an unmodified thin-set mortar conforming to ANSI A118.1, meeting the requirements set out in the Schluter®- DITRA Installation Handbook to set ceramic and stone tile on Schluter®-DITRA. When using PRO SET SF in conjunction with Schluter®-DITRA, the details in the Schluter®-DITRA Installation Handbook must be followed.



## 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 Schluter®-DITRA 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. **It is highly recommended to back-butter each individual large-format tile completely with fresh mortar and to apply them without delay over the freshly-applied ridged mortar bed to ensure proper transfer.**
3. Do not spread more mortar than can be covered with tiles within 20 minutes (Approx. 20 sq ft [2m<sup>2</sup>]).
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 (95% in wet areas, commercial floors and 100% for natural stone installation).
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.

## Expansion and Control Joints

- ♦ Install control joints where tiles abut restraining surfaces, around the perimeter of the work and at the base of columns and curbs.
- ♦ 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. CAUTION: DO NOT cut EXPANSION JOINTS in after the tiles have been installed. Install tiles normally and stop when the control joint location is reached. Cut the tile if required and resume setting from the opposite side of the joint. Before proceeding further, rake the joint and leave the tile and joint space clean.
- ♦ DO NOT FILL EXPANSION JOINT SPACE UNTIL GROUTING IS COMPLETED on the remainder 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.

## 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 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 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**.

## 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

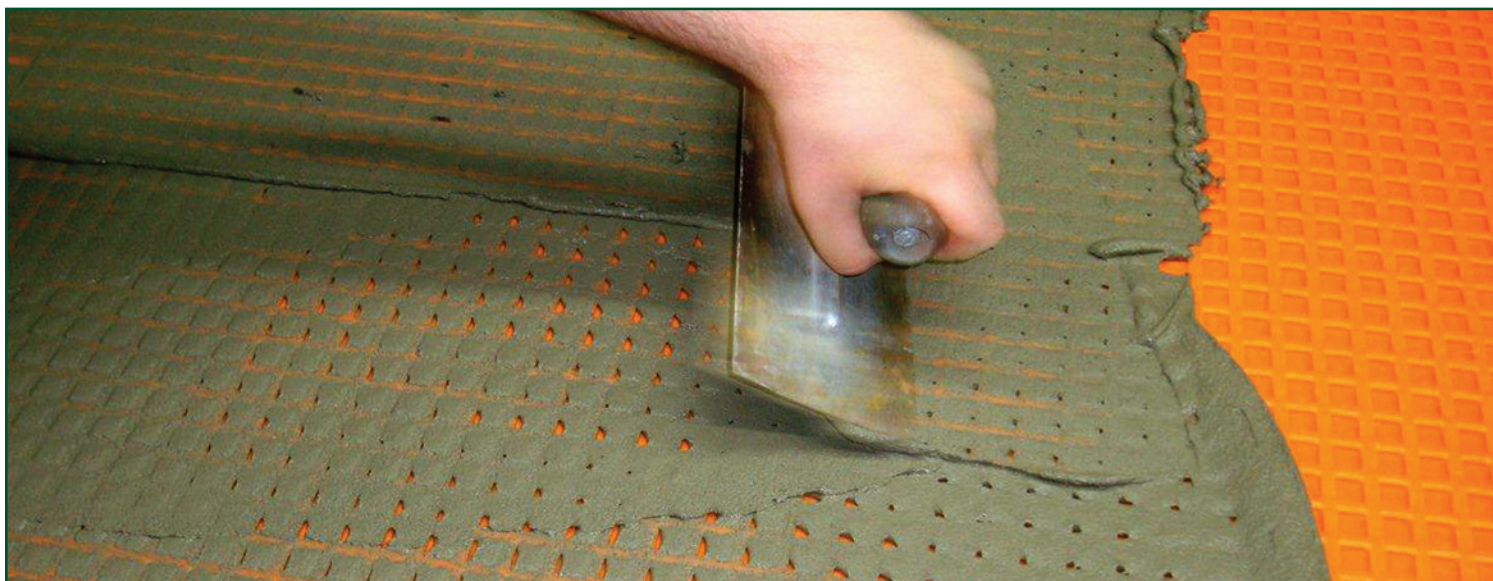
Product requires no special maintenance.

## 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**.

## 10. FILING SYSTEM

Additional information is available upon request, or by visiting [www.proma.ca](http://www.proma.ca).





---

**PROMA Adhesives Inc.**

9801, Parkway, Anjou, Quebec Canada H1J 1P3

Tel.: 514.852.8585

Fax: 514.852.8225

Toll-free: 1 866.51.PROMA (77662)

Email: [info@proma.ca](mailto:info@proma.ca)

© 2012 PROMA Adhesives, Inc.

