



PRO SCRATCH™

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

PRO SCRATCH is a 2:1 blend of sand and cement for use in conjunction with a wire lath that is resistant to corrosion, and is only suitable for indoor residential applications. The installation of PRO SCRATCH must be done in accordance with local and regional building codes.

Features

- ♦ Use for minor leveling and substrate correction
- ♦ For interior residential floor applications only
- ♦ Contributes to LEED® objectives and requirements

Packaging

22.7 kg (50 lb) bag

Suitable Substrates

(Used in conjunction with wire lath that is resistant to corrosion)

- ♦ Dry, completely cured concrete (at least 28 days old)
- ♦ Cement backer units (CBU)
- ♦ Exterior Grade Douglas Fir Plywood, certified CANPLY (SELECT) or (SEL-TF) CSA 121, for INTERIOR Residential Light-Duty Floors in dry areas only



Concrete

Exterior-Grade
Plywood

Limitations

- ♦ For INTERIOR installations only.
- ♦ Do not use at temperatures below 10°C (50°F) or above 35°C (95°F).
- ♦ Do not use on vertical surfaces
- ♦ Do not install where ice melting chemicals may be used.
- ♦ Do not mix with other cements, lime, plaster, or similar materials.
- ♦ Do not featheredge – minimum mortar thickness: 6 mm (1/4"). For thin repairs and levelling, use PRO FINE PATCH™ or PRO PATCH™ instead (see respective technical data sheet for details).
- ♦ Do not use for applications exceeding 50 mm (2") in thickness. For installations exceeding 50 mm (2") in thickness, contact our technical department for proper recommendations.
- ♦ Allow the mortar product to dry properly prior to installing the floor covering.
- ♦ Do not leave without floor covering or exposed as a resurfacing material.
- ♦ Avoid contact with aluminium and metal sidings, railings, bars, windows and accessories. Insulate such areas by applying an appropriate epoxy coating.





Limitations (continued)

- Do not use directly over a substrate that is subject to hydrostatic pressure, humidity problems or over dimensionally unstable substrates such as particleboard, chipboard, presswood, Luan, Masonite, OSB, asbestos board or steel. In such cases, a vapor barrier of either polyethylene sheeting or tar-paper must be installed before a floating concrete screed of a minimum thickness of 32 mm (1 1/4") with wire netting reinforcement built.
- Do not use the PRO SCRATCH mixture on a plywood base without first attaching a non-corrosive fastening mesh (interiors only).
- Do not use PRO SCRATCH on or to install a radiant heating system (contact our Technical Services department for appropriate recommendations).
- Protect from any direct air ventilation or heat radiation source, such as direct sunlight, during the installation. These conditions could cause the repair product to cure too rapidly, resulting in micro-cracking.
- Do not apply on any type of cushioned flooring.
- Do not accelerate curing time by using ventilators or heating appliances.**

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)

Working time	> 60 minutes
Initial set	24 hours
Final set	28 days

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

VOC content	0 g/L
Compressive strength (ASTM C-109)	
Mixing ratio: 10.5% (cubes)	Result
24 hours	600 psi (4.1 MPa)
7 days	2,600 psi (17.9 MPa)
28 days	2,800 psi (19.3 MPa)
Approximate coverage	
Thickness	Coverage
6 mm (1/4")	27 ft ² (2.51 m ²)
Shelf life	
24 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)

- 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, 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.
- All concrete substrates must be free of hydrostatic conditions.
- 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 provide sufficient surface texture and profile for the adequate bonding of the subsequent repair product (with a profile of CSP ≥ 5).
- Concrete must be saturated with water (SSD) to prevent an uncontrolled absorption of water out of the repair mortar. The concrete must be free of any standing water.
- Do not use sweeping compounds. This could leave an oily film on the concrete surface that will prevent a proper bond.
- Wood substrates must be solid and well-supported by joists spaced 400 mm (16") apart and should consist of two superimposed plywood sheet layers, each 16 mm (5/8") thick and set with a minimum of 3 mm (1/8") gap spacing between panels and 6 mm (1/4") gapping along the perimeter walls, around columns, posts, drains and pipe openings. The top underlayment plywood layer must be fastened with non-oxidizing floor screws at every 15 cm (6") along panel edges and each way throughout the panel at 20 cm (8") centers. Floor surfaces along adjacent edges of panels must not be more than 0.75 mm (1/32") above or below each other. **(Contact PROMA's Technical Services department for recommendations when using PRO SCRATCH with wire lath that is resistant to corrosion in place of a second layer of plywood where allowed by local building codes).** For ceramic and porcelain tiles up to 30 x 30 cm (12" x 12"), the structural design of the 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. (Refer to ANSI A108.01 requirements for Plywood sub-floors)**

Mixing

Mixing ratio: 3 1/3 parts powder to 1 part water (by volume)

- Use clean mixing tools and containers.
- In a clean mixing container, measure and pour **4.1 L (4.3 US qt / 1.08 US gal)** of cold clean water and gradually add 22.7 kg (50 lb) of PRO SCRATCH, while mixing slowly.
- Using a low-speed mechanical mixer (150 - 300 rpm), mix until a homogeneous, smooth, lump-free, consistency is achieved.
- Let product sit (slake) approximately 10 minutes; remix without adding any more water or powder-mix.
- The product is now ready for setting.
- During use, keep the mortar-mix fresh & smooth by periodically re-stirring the content inside the bucket without ever adding water.





Application

Note: Close all doors, windows and openings and protect work from wind, crossventilation and heat radiation source, such as direct sunlight, during and after the installation.

1. Wet slab to saturation with water. Wipe up excess and remove puddles.
2. Install wire lath that is resistant to corrosion.
3. Spread the mortar using a flat-edged trowel, ensuring that the mortar is well compacted into the voids of the wire lath. Apply additional mortar on the surface and level to obtain a flat mortar bed. For a smooth surface, there should be a thickness of at least 6 mm (1/4") over the wire lath.
4. Finish the surface with the required roughness using a suitable straightedge, trowel or smoother before the mortar sets.

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 Protection

- ♦ Do not wet or moisten during curing (24 hours).
- ♦ Protect from foot traffic for at least 24 hours at normal room temperature and humidity conditions.
- ♦ Wait until the mortar is completely dry before applying an adhesive/thin-set mortar.

Note: Drying time may vary depending on the thickness of application, temperature and humidity level. Do not attempt to accelerate drying and curing through forced ventilation, fans or heat-blowers.

Cleaning

Clean mixer, working tools and hands with water while 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.



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