



PRO PATCH™ LIQUID

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

PRO PATCH™ LIQUID is a high-performance acrylic additive used with PRO PATCH™ to obtain superior bond strengths, flexibility and working time, and allow for use as an embossing leveler over conventional and non-conventional substrates prior to the application of a floor covering.

Features

- ♦ To obtain superior bond strength, flexibility and working time of the PRO PATCH™
- ♦ For use as an embossing leveler when mixed with PRO PATCH™
- ♦ Patch from featheredge up to 12 mm (1/2") in a single application
- ♦ For interior institutional, commercial and residential applications
- ♦ Compatible with all adhesives and floor coverings including wood parquet and rubber
- ♦ Contributes to LEED® objectives and requirements

Packaging

4 L (1.05 U.S. gal) bottle; 20 L (5.3 U.S. gal) pail



When mixed with PRO PATCH™



Suitable Substrates

- ♦ Dry, completely cured concrete (at least 28 days old)
- ♦ Concrete and masonry blocks
- ♦ Cement backer units (CBU)
- ♦ Gypsum and light-weight concrete surfaces†
- ♦ Existing ceramic and quarry tiles, porcelain, granite and marble*
- ♦ Cementitious Terrazzo floors*
- ♦ Exterior Grade Douglas Fir Plywood, certified CANPLY (SELECT) or (SEL-TF) CSA 121, for INTERIOR Residential Light-Duty Floors in dry areas only
- ♦ Old cut-back adhesive **residue** and water-soluble adhesive **residues***
- ♦ Existing VCT tiles and non-cushioned vinyl sheet goods*
- ♦ Cementitious screeds, rendering, leveling coats and mortar beds

† When primed with PRO SUPERPRIME™ or PRO PRIME™ LP (see respective data sheet for details)

* 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

- ♦ For INTERIOR installations only.
- ♦ Do not use at temperatures below 10°C (50°F) or above 35°C (95°F).
- ♦ Do not use for applications exceeding 12 mm (1/2") in thickness. For installations exceeding 12 mm (1/2"), use PRO PLAN™, PRO PLAN LC™, PRO FLOWLEVEL 40™ or PRO CEMIX™ (see respective technical data sheets for details).
- ♦ Do not apply directly over particleboard, chipboard, presswood, Lauan, masonite, OSB and other dimensionally unstable materials.
- ♦ Do not use over any type of cushioned flooring surface.
- ♦ Allow the patching product to dry properly prior to installing the floor covering.
- ♦ Do not leave without floor covering or exposed as a resurfacing material.
- ♦ Existing Gypsum and light-weight concrete surfaces must be properly primed with PRO SUPERPRIME™ or PRO PRIME™ LP (see respective technical data sheet for details).
- ♦ Do not use where high moisture and hydrostatic conditions and/or recurring moisture problems exist.
- ♦ Do not use in places subject to immersion, to standing water or permanent humidity.
- ♦ Do not add sand, aggregate or more liquid than recommended to the mix.
- ♦ Protect from any direct air ventilation or heat radiation source, such as direct sunlight, during and after the installation, for a minimum of 24 hours. These conditions could cause the patching product to cure too rapidly, resulting in micro-cracking.
- ♦ **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	20 minutes
Final set	45-60 minutes
Time before installing floor covering	60-90 minutes

MECHANICAL PROPERTIES (@23° C [73° F] and 50% RH)	
VOC content	0 g/L (summer formula ideal for LEED projects) 109.9 g/L (winter formula ideal for freeze/thaw stability during transport)
Compressive strength (ASTM C-109) @ 28 days	
PRO PATCH™ with PRO PATCH™ LIQUID	> 24.1 MPa (3,500 psi)
Density (PRO PATCH™ mixed with PRO PATCH™ LIQUID)	1.7 g/mL
Approximate coverage per 10 kg (22 lb) bag	
Thickness	Coverage
1.5 mm (1/16")	6.5 m² (70 ft²)
3 mm (1/8")	3.25 m² (35 ft²)
6 mm (1/4")	1.58 m² (17 ft²)
Shelf life	
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 and stable.
- ♦ 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. For wood flooring and resilient floor covering installations, the moisture vapor emission of the concrete must not exceed 1.36 kg per 93 m² (3 lb per 1,000 sq. ft.) per 24 hours. Do not prime, repair, level or patch the substrate, or install any floor covering materials until moisture problems and conditions have been addressed to meet these requirements. **Please contact our Technical Service Department for appropriate recommendations.**
- ♦ Existing Gypsum and light-weight concrete surfaces must be properly primed with PRO SUPERPRIME™ or PRO PRIME™ LP (see respective technical data sheet for details).
- ♦ Smooth concrete substrate surfaces must be either PRIMED with PRO SUPERPRIME™ primer OR mechanically roughened in accordance with an engineer-approved procedure (shot-blasting, scarification, grinding, sand or waterblasting, etc) to provide sufficient surface texture and profile for the adequate bonding of the subsequent patching compound (please refer to the PRO SUPERPRIME™ technical data sheet for full details).
- ♦ Existing concrete slabs with old cutback adhesive or carpet adhesive **residues** must be scraped, roughened and cleaned (Please refer to the Surface Preparation Guidelines for full details or contact our Technical Service Department for appropriate recommendations).
- ♦ Existing ceramic tile, VCT and non-cushioned vinyl sheet goods should be properly prepared and cleaned prior to the application of the patching product (Please refer to the Surface Preparation Guidelines for full details or contact our Technical Service Department for appropriate recommendations).

Note: Scrape off as much as possible of the old cut-back adhesive.

Do not use sweeping compounds. This could leave an oily film on the concrete surface that will prevent a proper bond.

Mixing

1. Use clean mixing-tools and containers.
2. In a clean mixing container, pour **4 L (1.05 US gal [4.2 quarts])** of PRO PATCH™ LIQUID and gradually add 10 kg (22 lb) of PRO PATCH™ powder, while mixing slowly. **Note:** Dilution of PRO PATCH™ LIQUID with water will greatly reduce its adhesive strength.
3. Using a low-speed mechanical mixer (150 - 300 rpm), mix until a homogeneous, smooth, lump-free, consistency is achieved.
4. The product is now ready for use.
5. Use the product within the shortest possible delay (within a few minutes).





PRO PATCH™ mixed with PRO PATCH™ LIQUID used over non-cushioned vinyl sheet goods as an embossing leveler

Application

Note: Protect from any direct air ventilation or heat radiation source, such as direct sunlight, during and after the installation.

1. Spread PRO PATCH™ / PRO PATCH™ LIQUID immediately after mixing with the flat side of a trowel to the desired texture and finish.
2. Do not mix more material than can be used in a 20 minute period.
3. Do not add any PRO PATCH™ LIQUID once the mixture has hardened.

For more detailed information on ways to apply this product, please contact our technical department for proper recommendations and job field assistance.

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

- ◆ 60-90 minutes at room temperature (foot traffic).
- ◆ Install resilient floor covering, carpet, engineered wood and wood parquet after 60-90 minutes.
- ◆ Material should be completely dry prior to applying the floor covering adhesive.

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

- ◆ Ensure that the moisture vapor emission of the concrete does not exceed 1.36 kg per 93 m² (3 lb per 1 000 sq. ft.) per 24 hours when tested in accordance with the calcium chloride moisture emission test (ASTM F-1869) prior to the installation of a resilient floor covering or other material sensitive to water.
- ◆ Protect from traffic and dust until floor covering is completely 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.

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