



PRO PA-21™



2. MANUFACTURER

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3. PRODUCT DESCRIPTION

PRO PA-21™ is a highly concentrated acrylic additive and primer. Mix with PRO PATCH and PRO PATCH NM in lieu of water to obtain superior bond strengths, flexibility and working time. Use as an additive to prime over plywood and porous concrete. PRO PA-21, as a primer, can be applied with a nap roller, a broom or simply sprayed on.

Features

- Use as an additive with PRO PATCH and PRO PATCH NM to obtain superior bond strength, flexibility and working time
- Use as an additive to install over cutback and adhesive residues
- Use as a primer over porous concrete for reducing floor porosity
- Use as a primer over plywood
- For interior institutional, commercial and residential applications
- Contributes to LEED® objectives and requirements

Packaging

18.9 L (5 US gal) pail; 200 L (53 US gal) drum

Suitable Substrates

- Dry, completely cured porous concrete (at least 28 days old)
- 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 in dry areas only.
- Cement backer units (CBU)
- Cementitious screeds, rendering, leveling coats and mortar beds
- Old cutback adhesive residue and adhesive residues (when used as an additive only)

Limitations

- For INTERIOR installations only.
- Do not use at temperatures below 10°C (50°F) or above 35°C (95°F).
- Do not use when in the presence of hydrostatic pressure or humidity problems.
- Do not apply directly over particleboard, presswood, masonite or similar unstable substrates.
- Do not use directly over polished concrete, steel, existing hard and soft flooring such as porcelain tile, vinyl sheet goods, linoleum, terrazzo, etc. For these substrates, use PRO SUPERPRIME™ or PRO SUPERPRIME 1C instead (see technical data sheet for details).
- Do not use this product as a floor finishing primer or surface sealer or without covering it over with a floor covering material.
- Do not use as a primer over cutback and adhesive residues.

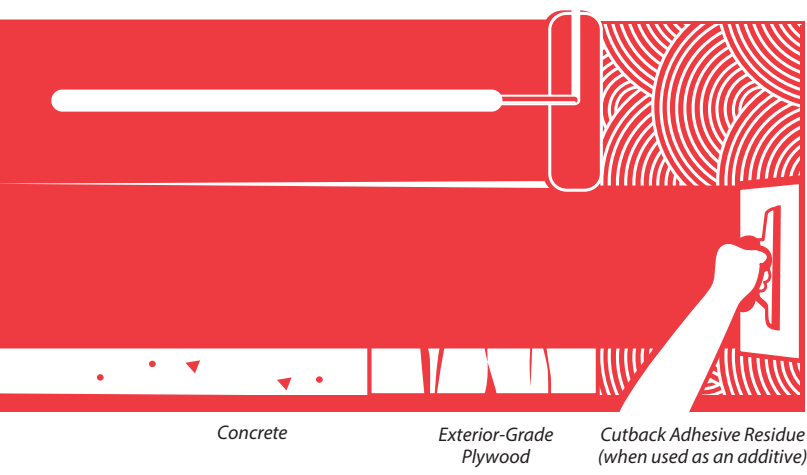
4. TECHNICAL DATA

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.

WORKING PROPERTIES (@23° C [73° F] and 50% RH)	
Drying time	> 1-3 hours

PHYSICAL PROPERTIES (@23° C [73° F] and 50% RH)	
Product color when wet	White
Product color when dry	Clear
VOC content	< 3 g/L
pH of latex	8.0
Latex density	1.0 g/mL
Approximate coverage per 18.9 L (5 US gal) when undiluted (as a primer)	
90-185m ² (1,000-2,000 ft ²)	
Shelf life	
12 months if kept in its original unopened packaging and stored in a dry location. Protect from freezing.	



Concrete

Exterior-Grade Plywood

Cutback Adhesive Residue (when used as an additive)



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.
- ♦ 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 (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™ or PRO SUPERPRIME 1C™ respective technical data sheet for full details).
- ♦ Existing concrete slabs with major old cutback adhesive or carpet adhesive residues must be properly scraped, roughened and cleaned. Note: Scrape off as much as possible of the old cutback adhesive.
- ♦ Do not use sweeping compounds. This could leave an oily film on the concrete surface that will prevent a proper bond.

Mixing and Application

As an additive

1. Use clean mixing-tools and containers.
2. In a clean mixing container, replace totally or partially the recommended water amount with PRO PA-21 and gradually add PRO PATCH or PRO PATCH NM powder, while mixing slowly. (please refer to the PRO PATCH or PRO PATCH NM technical data sheet for full details).
3. Use 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).

As a primer

Use PRO PA-21 diluted 1:1 over porous concrete, cement backer units (CBU), cementitious screeds, rendering, leveling coats and mortar beds.

1. Use clean mixing tools and containers.
2. Stir PRO PA-21 thoroughly before use.
3. Dilute 1 part of PRO PA-21 into 1 part of clean, cool potable water.
4. Use a low-speed mixer (about 300 rpm) for stirring and mixing.
5. Apply PRO PA-21 and work it into the substrate with a push broom or thick nap paint roller. Can also be sprayed.
6. Let PRO PA-21 primer dry until it becomes transparent and tacky.

Use PRO PA-21 undiluted over plywood.

1. Use clean mixing tools and containers.
2. Stir PRO PA-21 thoroughly before use.
3. Use a low-speed mixer (about 300 rpm) for stirring and mixing.
4. Apply PRO PA-21 and work it into the substrate with a push broom or thick nap paint roller. Can also be sprayed.
5. Let PRO PA-21 primer dry until it becomes transparent and tacky.

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.

Drying Time

Generally, PRO PA-21 primer dries in about 1-3 hours (@ 23°C [73°F] and 50% RH); however the drying time may vary according to the prevailing room and substrate temperature and humidity conditions at time of application. Note: Remove all puddles and excess latex primer before proceeding further.

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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