



PRO TOP™ FX

2. MANUFACTURER

PROMA ADHESIVES Inc.

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3. PRODUCT DESCRIPTION

PRO TOP™ FX is a polymer-modified, fast-setting, fiber-reinforced, shrinkage-compensated, calcium aluminate cement-based repair mortar formulated with Corrosion Guard™ protection that is designed to fill cracks, voids and holes on wall, ceiling and floor concrete surfaces. Once dried, its light grey finish will match typical concrete color. It can be applied from featheredge up to 10 cm (4") thick.

Features

- ◆ Generates very high compressive strengths (>7,000 psi [>49 MPa])
- ◆ Apply from featheredge up to 10 cm (4") in thickness
- ◆ Mix with water
- ◆ Shrinkage-free
- ◆ Formulated with Corrosion Guard™ protection
- ◆ Light grey color
- ◆ FAST-SETTING: Foot traffic after 3-4 hours
- ◆ Can be mixed with PRO SET™ PLUS for better performance and flexibility when used for exterior installations or for wet areas application
- ◆ For use over concrete horizontally and vertically
- ◆ For interior and exterior, institutional, commercial and residential applications
- ◆ Compatible with all setting materials
- ◆ Blocks pH when installed greater than 5 mm (3/16") thick
- ◆ Will not promote mold, mildew or bacteria growth
- ◆ No VOC
- ◆ Product characteristics improves indoor air quality compared to Portland cement-based products
- ◆ Eco friendly for users of the material
- ◆ Contributes to LEED® objectives and requirements

Packaging

22.7 kg (50 lb) plastic bag



Concrete



Suitable Substrates

- ◆ Dry, completely cured concrete (at least 28 days old)
- ◆ Cement backer units (CBU)
- ◆ Cement masonry units (CMU)

Limitations

- ◆ Do not use at temperatures below 10°C (50°F) or above 35°C (95°F). If temperatures are outside of this range, please contact our technical service department for appropriate recommendations.
- ◆ Do not apply directly over plywood, particleboard, chipboard, presswood, Luan, masonite and other dimensionally unstable materials.
- ◆ Do not use if hydrostatic pressure is suspected.
- ◆ Do not use as anchoring grout.

Limitations (continued)

- ◆ Do not add water to the mix once it begins to thicken.
- ◆ Avoid contact with Aluminium and metal sidings, railings, bars, windows and accessories. Insulate such areas by applying an appropriate epoxy coating.
- ◆ Protect re-bars, posts and structural elements with an effective epoxy resin coating such as PRO PRIME EPX (contact PROMA's Technical Service Department for proper advice and recommendations).
- ◆ Do not use PRO PRIME EPX as a primer on large area.
- ◆ 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 accelerate curing time by using ventilators or heating appliances.

4. TECHNICAL DATA

Applicable Standards

For Additional Information, please refer to the most recent ICRI Technical Guidelines as well as ACI RAP Bulletins.

PHYSICAL PROPERTIES @ 23° C [73° F] and 50% RH) at 17% of water)

Final cure	45 minutes
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MECHANICAL PROPERTIES @ 23° C [73° F] and 50% RH)

VOC content	0 g/L
Compressive strength per ASTM C-109	
3 hours	> 1,800 psi (12.4 MPa)
1 days	> 4,000 psi (27.6 MPa)
7 days	> 6,000 psi (41.3 MPa)
28 days	> 7,000 psi (49.7MPa)
Flexural strength per ASTM C348	
28 days	> 1,200 psi (8.2 MPa)
Pull-off strength on concrete per ASTM D4541	
7 days	> 280 psi (1.9 MPa)*
*Failure in concrete substrate	
Volume change	
28 days, dry-cured	0.1%
Freeze/thaw resistance per ISO 13007-2.2 (-15°C up to 20°C)	
800 cycles	No degradation
Approximate coverage per 22.7 kg (50 lb) bag	
Thickness	Coverage
6 mm (1/4")	21.6 ft ² (2.0 m ²)
10 mm (3/8")	12.9-14.0 ft ² (1.2-1.3 m ²)
13 mm (1/2")	10.8 ft ² (1.0 m ²)
25 mm (1")	5.4 ft ² (0.5 m ²)
50 mm (2")	2.7-2.9 ft ² (0.25-0.27 m ²)
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)

- ◆ 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.

Mixing

Mixing ratio: 4 – 4 2/3 parts powder to 1 part water (by volume)

1. Use clean mixing-tools and containers.
2. In a clean mixing container, depending on the desired consistency, measure and pour between **3.8 L - 4.5 L (3.2-4.2 US quarts [1.0 - 1.2 US gall])** of cool clean water or PRO SET PLUS and gradually add 22.7 kg (50 lb) of PRO TOP FX 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. The product is now ready for setting.
5. Use the product within the shortest possible delay (within a few minutes).

Application

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

1. Spread PRO TOP FX immediately after mixing with a flat trowel to the desired texture and finish.
2. Do not mix more material that can be used in a 10-minutes period.
3. Do not add any water 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.

Note: If the repair requires more than one lift, apply mortar using a rough profile and then key surface (score) to a depth of 6 mm (1/4") using a crisscrossing pattern. Apply subsequent layers after the previous layer has initially set and can support the weight of the new layer. Once final repair has set to desired stiffness, finish repair with a wood, steel or sponge float to the required texture. When finishing using a dampened sponge with soft to medium density, move sponge in a circular motion to remove trowel marks and blend repair with the surrounding surface area. Do not use an overly dampened sponge, excessive surface water, or over-finish the repair material.

Expansion and Control Joints

- ◆ Respect all control joints if necessary where specified.

Curing and Protection

- ◆ Protect area from foot traffic for at least 3-4 hours, at room temperature.

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 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.

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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