PRO PRIME™ EPX



2. MANUFACTURER

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3. PRODUCT DESCRIPTION

PRO PRIME™ EPX is a two-component, **solvent-free**, 100% solids, multipurpose, high-modulus epoxy-based adhesive and coating. PRO PRIME™ EPX can be applied using a roller, a broom or a brush. It can be applied as a protective coating on steel bar and as a primer on dried concrete. PRO PRIME™ EPX is a powerful structural adhesive on many various substrates like steel, wood and concrete.

Features

- Use as a protective coating on re-bars, posts and structural elements
- Use as a primer for fresh concrete adhesion to cured concrete and steel
- Use as a powerful structural adhesive on wood, concrete and masonry
- Use as a horizontal crack filler on wood, concrete and masonry
- Use as a bonding grout for anchors, bolts, dowels, rods …
- Chemical resistant
- For interior and exterior institutional, commercial and residential applications
- Applies easily with a roller, a broom or a brush
- No VOC
- Exceeds ASTM C881 requirements
- Contributes to LEED® objectives and requirements

Packaging

7.56 L (2 US gal) size
Part A: 3.78 L (1 US gal)
Part B: 3.78 L (1 US gal)



Suitable Substrates

- Dry, completely cured porous concrete and masonry (at least 28 days old)
- Steel and wood substrates
- Cementitious screeds and mortar beds

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 use when in the presence of hydrostatic pressure or humidity problems.
- Do not apply directly over dimensionally unstable materials.
- Do not use as a primer or bonding agent for fast-setting concrete repair mortar (ex: PRO CEMIX™, PRO CEMIX™ WS, etc) for large scale area. (Please contact our Technical Service Department for appropriate recommendations)
- Do not add water or solvent to the mix.
- Do not use this product as a surface sealer.

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 (@22° C [72° F] and 50% RH)	
Color	Concrete grey
Viscosity @25°C [77°F]	4000-5000 cps
Pot life	30-40 minutes
Drying time	1 hour

MECHANICAL PROPERTIES (@22° C [72° F] and 50% RH after 7 days)	
VOC content	0 g/L
Tensile strength (ASTM D638)	36.7 MPa (5330 psi)
Modulus of elasticity/tension (ASTM D638)	1.35 GPa (1.97×10^5 psi)
Elongation at break (ASTM D638)	4.9%
Compressive strength (ASTM D695)	67.4 MPa (9770 psi)
Modulus of elasticity/compression (ASTM D695)	1,68 GPa ($2,44 \times 10^5$ psi)
Flexural strength (ASTM D790)	77.9 MPa (11300 psi)
Modulus of elasticity/flexural (ASTM D790)	3.57 GPa (5.18×10^5 psi)
Shore hardness (shore D) (ASTM D2240)	85-87
Approximate coverage per 7.56 L (2 US gal) at 20 mils (0.5 mm) thick *Note: Rough surfaces could reduce the coverage per gal.*	14-19 m^2 (150-200 ft^2)
Shelf life	
24 months if kept in its original unopened packaging and stored in a warm, dry location. ***Protect from freezing.***	

5. INSTALLATION

Surface Preparation

(Refer to PROMA Surface Preparation Guidelines for complete details)

- All Surfaces must be clean and free of rust, 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 free of standing water, hydrostatic conditions and/or extreme moisture problems.
- Smooth concrete substrate surfaces must be mechanically prepared 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 PRO PRIME EPX (with a profile of CSP 3 to 9).
- Steel must be mechanically prepared to remove any rust or previous coating to obtain a white metal finish.
- Do not use sweeping compounds. This could leave an oily film on the concrete surface that will prevent a proper bond.

Mixing and Application

Mixing Ratio in volume 1:1 (Part A:Part B)

1. Use clean mixing-tools and containers.
2. Pre-mix Part A and Part B separately.
3. Pour an equal volume (or the entire units) of Part A and Part B into a clean, proper-sized mixing container.
4. Using a mechanical mixer (300-500 RPM), mix until a homogeneous consistency is achieved (3 min). Do not over-mix or allow air into the mixture.
5. Apply PRO PRIME EPX with a roller, a broom or a brush making sure to cover the desired surface.

Application as a protective coating on re-bars, posts and structural elements

Apply a uniform coat of PRO PRIME EPX on the steel elements and allow to dry until tack-free. Apply another coat of PRO PRIME EPX and pour concrete or a repair mortar while PRO PRIME EPX is still tacky.

Application as a primer for fresh concrete adhesion to cured concrete and steel

Apply a coat of PRO PRIME EPX on concrete or on steel and pour concrete while PRO PRIME™ EPX is still tacky.

Application as a powerful structural adhesive on wood, concrete and masonry

Apply a coat of PRO PRIME EPX on wood, concrete or masonry and pour concrete or a repair mortar while PRO PRIME™ EPX is still tacky.

Application as a horizontal crack filler on wood, concrete and masonry

Pour PRO PRIME™ EPX into the crack. For crack thicker than 6 mm (1/4"), please contact our Technical Service Department for appropriate recommendations.

Application as a bonding grout for anchors, bolts, dowels, rods,…

The hole should be 6 mm (1/4") larger and 10 to 15 times deeper than the anchor, bolt, dowel or rod diameter that need to be embedded. Pour enough PRO PRIME EPX in the hole to fill all empty space once the anchor, bolt, dowel or rod is inserted.

Curing and Protection

- 1 hour at room temperature.
- The complete hardening chemical reaction takes 7 days.
- If PRO PRIME EPX is no longer tacky, apply another coat and pour while it's tacky.

Cleaning

Clean tools with solvent while product is still fresh.

Health and Safety

Refer to the Safety Data Sheet (SDS) for complete details.

6. AVAILABILTY 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. Do not leave 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.**

10. FILING SYSTEM

Additional information is available upon request, or by visiting **www.proma.ca.**

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