



PRO GROUT™ XTREME

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

PRO GROUT™ XTREME is an innovative, new-generation, lightweight, unique ALL-IN-ONE reactive resin mortar and grout featuring FUSION technology, which blends multiple key characteristics for the benefit of the end-user. PRO GROUT™ XTREME is a stain-resistant, **scratch-free** and **sag-free** grout with exceptional color consistency and ease-of-maintenance. It is a water-cleanable, high-performance and durable all-in-one mortar and grout that outperforms common cementitious mortars and grouts.

Features

- Use for GROUTING joints 1 mm (1/32") to 13 mm (1/2") wide
- Comes in all PROMA colors, in ONE convenient package
- **Scratch-free – no sand or silica in mix**
- A LIGHTWEIGHT Technology formula with **sag-free** properties – 33% lighter in weight than conventional epoxy products
- Contains Recycled Materials (50% Post-Consumer) – Exceeds LEED® objectives and requirements
- Chemical and Stain-resistant, 0% absorption, no sealing required
- Color consistent – no efflorescence
- Inhibits mold and mildew growth
- A PROMA's Super Setting Technology product: extended working time, ultra creamy consistency and easy to use for grouting or for setting tile
- No VOC
- For highly resistant institutional, commercial, industrial and residential applications
- For harsh chemical resistance to highly corrosive chemicals, food products and beverages such as in commercial and institutional kitchens, bottling and food processing plants, hospitals, laboratories, breweries and more
- For grouting most types of ceramic and porcelain tiles, quarry tiles, pavers, glass tiles, natural and engineered dimension stones, granite and slate (except white marble, onyx and highly absorptive translucent marble and stone [test first before use])
- For grouting polished marble or non vitreous soft glaze wall tiles
- For interior use on floors, countertops, walls, and in wet and submerged areas, including water basins, fountains, pools and gang showers
- Easy to maintain and cleans up to original color
- Use as an INDUSTRIAL-STRENGTH MORTAR for most tile and stone and moisture sensitive stones such as green or red marbles (see PRO GROUT™ XTREME [mortar] data sheet for details)
- Exceeds ANSI A118.3 requirements

Packaging

1 L (0.26 US gal) kit; 3 L (0.79 US gal) kit



Limitations

- Epoxy coat thickness should not exceed 10 mm (3/8").
- Grout width should be at least 1 mm (1/32") and not more than 13 mm (1/2").
- Do not apply PRO GROUT™ XTREME when ambient, surface and tile temperatures are below 15°C (60°F) or above 35°C (95°F) in order to be easily applied and cleaned.
- Do not use in an environment that will be subject to excessive heat. Once cured, PRO GROUT™ XTREME will resist temperatures up to 100°C (212°F).
- Do not apply or install over expansion and control joints.
- **"Caution"**: Some types of glazed (or textured) ceramic tiles, porous tiles, marble, limestone and polished stones can be permanently stained or damaged when grouted with pigmented, resin-based or sanded grouts. Generally, white cementitious grout is best suited for grouting white or light colored marble or granite. Certain highly absorptive tiles (such as Saltillo, adobe, terracotta, etc) or tiles with surface porosity, rough textured surface and certain types of porcelain tiles may require sealing prior to grouting to prevent staining. Test a small area first, taking all the necessary precautions; apply, where required, an appropriate grout release (such PROMA's PRO GROUT™ EASE - refer to technical data sheet for more details) to prevent grout staining. Follow the tile or stone manufacturer's instructions and recommendations.



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)	
Pot life	> 1 hour
Initial set	> 2 hours
Final cure	21 days
Lead time prior to light foot traffic	24 hours
Lead time prior to normal traffic	72 hours
Lead time prior to heavy or industrial traffic	7 days
Lead time prior immersion or freeze/thaw	21 days

PHYSICAL PROPERTIES (@23° C [73° F] and 50% RH)	
VOC content	0 g/L
Compressive strength @ 28 days	≥ 6800 psi (47 MPa)
Tensile strength	≥ 1000 psi (6.9 MPa)
Quarry-to-quarry bond strength	≥ 1180 psi (8.1 MPa)
Linear shrinkage (%) ASTM C531 @ 7 days	< 0.20%
Approximate coverage	
Visit our web site www.proma.ca and refer to our GROUT CALCULATOR to help determine the approximate amount of grout needed for any sized job.	
Shelf life	
24 months if kept in its original unopened packaging and stored in a dry location.	

Chemical resistance

Resistance to chemicals varies depending on the concentration, temperature and duration of exposure. Tests made in laboratory on the PRO GROUT™ XTREME reveal variable resistance to certain chemicals. The following table must be considered as a general guideline for PRO GROUT™ XTREME applications. Specific tests can be PERFORMED upon request.

ACIDS		
Type	Concentration	Degree of Resistance
Vinegar	2.5%	A
	5%	A
	10%	C
Hydrochloric Acid	10%	A
	30%	A
Chromic Acid	20%	C
Citric Acid	10%	A
Formic Acid	2.5%	A
	10%	C
Lactic Acid	2.5%	A
	5%	A
Nitric Acid	10%	A
	50%	C
Aleic Acid		C
Phosphoric Acid	50%	A
	75%	B

ACIDS		
Type	Concentration	Degree of Resistance
Sulfuric Acid	1.5%	A
	10%	A
	96%	C
Tannic Acid	10%	A
Oxalic Acid	10%	A
BASIC AND SALT SOLUTIONS		
Type	Concentration	Degree of Resistance
Ammonia Solution	25%	A
Caustic Soda	50%	A
Hypochlorite Solution	10%	C
	Act. CL 6.4 g / L	A
	Act. CL 165 g / L	A
SOLVENTS		
Type	Degree of Resistance	
Acetone	C	
Ethylene Glycol	B	
Glycerol	A	
Perchloroethylene	C	
Carbon Tetrachloride	B	
Ethyl Alcohol	A	
Trichloroethane	C	
Chloroform	C	
Methylene Chloride	C	
Tetrahydrofuran	C	
Toluene	C	
Carbon Disulfide	B	
Mineral Spirits	A	
Benzene	C	
Methylcellulose	C	
Xylene	C	
OILS AND COMBUSTIBLE PRODUCTS		
Type	Degree of Resistance	
Gasoline	A	
Turpentine	A	
Diesel Fuel	A	
Peanut Oil	A	
Tar	A	
Olive Oil	A	
Heating Oil	A	

A - Excellent resistance
B - Good resistance (a prolonged contact could cause deterioration)
C - Poor or no resistance



5. INSTALLATION

Surface Preparation

- ♦ Tiles must be firmly secured to a sound solid non-deflecting substrate in accordance with the appropriate ANSI A108 Standard recommendations.
- ♦ The setting mortar or adhesive must be cured and dry in accordance with the "Prior to grouting" product instruction requirements.
- ♦ Remove all spacers, pegs or ropes.
- ♦ Vacuum and clean tile surfaces thoroughly to remove all contaminants.
- ♦ Joint spaces should be uniform in depth and width and free of excess mortar, dust, dirt, free water and debris.
- ♦ Pre-seal tile or stone that can be subject to staining; follow the tile or stone manufacturer's instructions and recommendations. If needed, use PROMA's PRO GROUT™ EASE product prior to grouting (see respective technical data sheet for more details).

Ambient and Surface Temperatures

- ♦ Ideally, for best performance and ease-of-application, room and surface temperatures should be set and maintained at about 22°C (72°F).
- ♦ IN HOT OR WARM CLIMATIC CONDITIONS, epoxy grouts harden and set faster, allowing less time for installation and adjustments. Precautions must be taken to ensure that the epoxy does not flash set. Cooling the epoxy mixture by placing the mixed-epoxy bucket over an ice bed or inside a larger cold water container will help slow down the epoxy setting process and aid in prolonging the available installation time.
- ♦ Conversely, COLD WEATHER TILING DOES STIFFEN THE EPOXY, making it harder to spread with a longer open time. In this case, placing the SEALED UNOPENED UNITS of epoxy grout in HOT water during 15 to 20 minutes will loosen-up the epoxy, making it easier to mix and spread while reducing the open time.
- ♦ When opting for any of these procedures, caution must be exercised to avoid ice or water from entering into the epoxy grout mixture.

Caution

Wear rubber gloves, safety glasses and protective clothing. Avoid contact with skin and eyes during handling, mixing, application and cleaning. Wash hands with soap and water often, especially after mixing, at break time and before meals. **EYE CONTACT:** Flush eyes thoroughly with water. If irritation persists, seek medical attention. **SKIN CONTACT:** Remove contaminated clothing. Wash skin with soap and water. If irritation persists, seek medical attention.

Mixing

Note: In order to obtain the maximum strength and performance and a uniform color spread, it is essential that the ENTIRE contents of each of the (3) three components be mixed and used together.

1. Pour and scrape the ENTIRE content of Part A (resin) into the mixing pail.
2. Pour and scrape the ENTIRE content of Part B (hardener) into the mixing pail.
3. Blend this A and B mixture using a low-speed mixer (approx. 300 RPM) to a homogeneous consistency (30 seconds).
4. Slowly add entire package of powder, while mechanically mixing.
5. Mix until a uniform color and consistency paste is achieved. (Approximately 2 minutes). DO NOT OVER-MIX as this may cause the product to stiffen and substantially shorten its working time.
6. Wash tools with water immediately after use or it will be impossible to do so once the product has cured.

Application

1. Ensure that the setting material has completely cured prior to grouting. Tile surfaces and grout spaces must be thoroughly cleaned, dried and vacuumed prior to grouting.
2. Spread and pressure apply PRO GROUT™ XTREME into joints working in diagonal sweeps with a hard rubber float held at a 45° angle.
3. Ensure grout is well compacted into joint cavities, leaving no voids or air pockets.
4. Remove excess grout in diagonally sweeps across joints, holding the hard rubber float at a 90° angle as a squeegee to avoid emptying the freshly applied joints.
5. Wash grout within 1 hour with clean water using a firm cellulose sponge. Proceed in diagonal passes across joints applying only little pressure. **Add a few drops of dish soap to the clean water to avoid film deposit on the tile surface.** Rinse repeatedly and change water often for better results.
6. When finished, make sure surface is dry and perfectly clean since product will be hard to remove once cured. **Important Note:** If necessary, it will still be possible to remove the film deposit on the surface of the tile 24 hours later using the same dish soap/water procedure.



Mixing Pail, Part A (resin)



Mixing Pail, Part B (hardener)



Mixing



Coloring powder



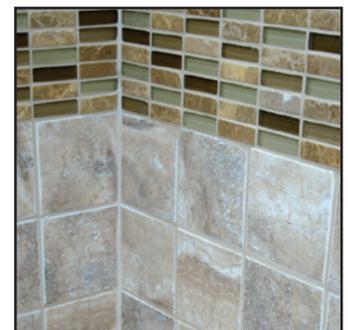
Mixing



Application



Clean up





Application as a MORTAR

See PRO GROUT™ XTREME "MORTAR" data sheet for details (Setting Materials/ Specialty).

Note: All expansion and control joints must be carried through from substrate to final flooring and filled with an industry-approved flexible sealant in accordance with ANSI A108.01 and TCNA detail EJ171 or TTMAC detail 301MJ. Do not fill or cover expansion and control joints with installation material. Contact PROMA's technical department for additional information.

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Curing and Protection

- ♦ **General:** Protect tile-work from weather, freezing, and continuous water condition or immersion during installation and for at least 14 days after this installation is completed.
- ♦ **Floor Traffic:** Prohibit all traffic and stepping on floors for at least 24 hours. Light foot traffic may be allowed after 24 hours, Normal traffic after 72 hours and Heavy Industrial traffic after 7 days from installation.
- ♦ **Food Stains and Chemical Exposure:** Protect floors, walls and counter tops from food products and mild chemicals for at least 10 days.
- ♦ **Walls:** Protect walls from impact and vibration for at least 24 hours (or as required by the setting mortar or adhesive instructions).
- ♦ Protect from industrial acids and alkalis for at least 14 days.
- ♦ Do not expose epoxy grout to propane gas heaters and their exhaust; such exposure can cause yellowing of the product. Also, ultraviolet (UV) sunlight passing through interior windows can sometimes cause yellowing, so protect product from excessive exposure.
- ♦ Routine Maintenance soaps and detergents: Refrain from using routine maintenance soaps and detergents for at least 72 hours after installation.

Note: Since temperature and humidity (during and after the tile installation) affect the curing time of all cement-based and epoxy products, allow for extended cure and protection delays when temperatures are below 15°C (60°F).

Cleaning

Clean tools with water immediately after use or it will be impossible to do so once the product has cured.

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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