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Pro Grout™ Xtreme

New-Generation, All-In-One, Stain- and Chemical-Resistant Grout and Mortar System

Pro Grout Xtreme is an innovative, new-generation, lightweight, unique ALL-IN-ONE reactive resin mortar and grout, 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.

Uses

- ◆ For **GROUTING** joints 0.8 mm (1/32") to 12 mm (1/2") wide
- ◆ **Scratch-free** – no sand or silica in mix
- ◆ A **LIGHTWEIGHT** Technology formula with sag-free properties as a grout – 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 **Prima's Super Setting Technology** product: extended working time, ultra creamy consistency and easy to use for grouting or for setting tile
- ◆ **No VOC**
- ◆ Available in all 42 Prima colors, in **ONE** convenient package
- ◆ For highly resistant residential, commercial, industrial and institutional installations
- ◆ 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 (except white marble, onyx and highly absorptive translucent marble and stone [test first before use])
- ◆ For interior use on floors, countertops, walls and in wet areas
- ◆ **Easy to maintain and cleans up to original color**
- ◆ 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

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



Limitations

- ◆ Epoxy coat thickness should not exceed 10 mm (3/8").
- ◆ Grout width should be at least 0.8 mm (1/32") and not more than 12 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 to prevent grout staining. Follow the tile or stone manufacturer's instructions and recommendations.



Pro Grout Xtreme™ (continued)

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.

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 mortars 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 mortar 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 mortar 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 15 minutes, with plenty of clean lukewarm water using an epoxy sponge. Proceed in diagonal passes across joints applying only little pressure. (Hot or lukewarm water makes cleaning easier). Rinse repeatedly and change water often to avoid or reduce film formation on the tile surface.
6. After excess epoxy residue is removed from the tile surface, do a final rinsing using a damp, firm cellulose sponge. **Important Note:** Keep the rinsing water clean by changing often, and when finished, make sure surface is dry and perfectly clean because product will be hard to remove once cured.
7. 24 hours later, if necessary, use water with a soft dish soap to remove the film on the tile.

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

- ◆ **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.
- ◆ 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).

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
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

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

SOLVENTS	
Type	Degree of Resistance
Acetone	C
Ethylene Glycol	B
Glycerol	A
Perchloroethylene	C
Carbon Tetrachloride	B
Ethylic 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



Pro Grout Xtreme™ (continued)**Technical Data** for Pro Grout Xtreme (Grout) ANSI A118.3 (@23°C/50% HR)

Pot life:	> 1 hour
Initial set:	> 2 hours
Final cure:	21 days
VOC Content:	0 g/L
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
Compression @ 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%

Shelf life:
12 months when kept in its original unopened packaging and stored in a dry location.

Health and Safety:

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

Application as a MORTAR

See Pro Grout Xtreme "Mortar" data sheet for details
(Setting Materials/ Specialty).

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.

Approximate Coverage

m² per 3 L (0.79 US gal) kit / (ft² per 3 L [0.79 US gal] kit)

Tile Dimension	Joint width		
	3 mm (1/8")	6 mm (1/4")	10 mm (3/8")
25 x 25 x 6 mm	2.2 m ²	1.1 m ²	0.65 m ²
1" x 1" x 1/4"	(23.7 ft ²)	(11.8 ft ²)	(7.0 ft ²)
50 x 50 x 6 mm	4.1 m ²	2.05 m ²	1.25 m ²
2" x 2" x 1/4"	(44.1 ft ²)	(22.1 ft ²)	(13.5 ft ²)
106 x 106 x 6 mm	8.2 m ²	4.1 m ²	2.5 m ²
4 1/4" x 4 1/4" x 1/4"	(88.3 ft ²)	(44.1 ft ²)	(26.9 ft ²)
100 x 100 x 10 mm	4.7 m ²	2.35 m ²	1.4 m ²
4" x 4" x 3/8"	(50.6 ft ²)	(25.3 ft ²)	(15.1 ft ²)
100 x 200 x 6 mm	10.0 m ²	5.1 m ²	3.05 m ²
4" x 8" x 1/4"	(107.6 ft ²)	(54.9 ft ²)	(32.8 ft ²)
150 x 150 x 6 mm	11.5 m ²	5.75 m ²	3.45 m ²
6" x 6" x 1/4"	(123.8 ft ²)	(61.9 ft ²)	(37.1 ft ²)
150 x 150 x 12 mm	5.8 m ²	2.9 m ²	1.7 m ²
6" x 6" x 1/2"	(62.4 ft ²)	(31.2 ft ²)	(18.3 ft ²)
200 x 200 x 10 mm	8.65 m ²	4.3 m ²	2.6 m ²
8" x 8" x 3/8"	(93.1 ft ²)	(46.3 ft ²)	(28.0 ft ²)
250 x 250 x 10 mm	10.4 m ²	5.2 m ²	3.1 m ²
10" x 10" x 3/8"	(111.9 ft ²)	(56.0 ft ²)	(33.4 ft ²)
300 x 300 x 10 mm	11.5 m ²	5.75 m ²	3.45 m ²
12" x 12" x 3/8"	(123.8 ft ²)	(61.9 ft ²)	(37.1 ft ²)
300 x 300 x 12 mm	9.6 m ²	4.8 m ²	2.9 m ²
12" x 12" x 1/2"	(103.3 ft ²)	(51.7 ft ²)	(31.2 ft ²)
406 x 406 x 10 mm	18.3 m ²	9.15 m ²	5.5 m ²
16" x 16" x 3/8"	(197.0 ft ²)	(98.5 ft ²)	(59.2 ft ²)
610 x 610 x 10 mm	25.9 m ²	13.0 m ²	7.8 m ²
24" x 24" x 3/8"	(278.8 ft ²)	(139.9 ft ²)	(84.0 ft ²)

Notice: The coverage data is approximate and given for estimation purposes only.

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