

# -Poly800- PRECISION

WATER-BASED EPOXY GROUT AND ADHESIVE



POLY800 PRECISION meets or exceeds: standard norm\*:  
- ANSI A118.3  
\* See lexicon at the end.

## DESCRIPTION

PROFIX has developed an innovating water-based formula that has an improved reaction in contact with water, thus facilitating cleaning, while conserving its waterproof properties once the cure is completed. Moreover, the mix is creamy and easy to handle upon installation. The water-based grout reduces the use of solvent, which makes it emit less VOC.

Epoxy grout is essentially used when a heightened stain, chemical products impact resistance is needed. The installation thus leads to long-term results. It is the best choice for installations in showers and on counters.

## CHARACTERISTICS

- A wide variety of positive factors making epoxy grouting more user-friendly
- Only 1 component to add
- Extended pot life to 70 minutes at 22°C
- Value size (1.25kg)
- Nearly odourless
- Low level of VOC

## FORMATS

- 1.25 kg unit: includes powder, hardener and instructions
- 5 kg unit: includes powder, hardener and instructions

## TECHNICAL DATA AT 22°C

Pot Life	70 minutes
Open time	15 minutes
Initial set	> 2 hours
Final set	28 days
Compression force	7 days : 3500 psi
Shear strength (Quarry tiles)	1100 psi
Circulation :	
Light	24 hours
Normal	48 hours
Heavy	72 hours
VOC level	0 g/L

## SHELF LIFE

12 months following production date. Must be stored in a dry and heated area.

## COVERAGE CHART WHEN USED AS A GROUT

COVERAGE TABLE (in sq.ft.) • For 5 kg (11 LB)				
Tile Size	Joint width			
	1/8"	3/16"	1/4"	3/8"
3/4" x 3/4" x 1/4"	20	15	12	9
1" x 1" x 3/8"	17	12	9	7
2" x 2" x 3/8"	31	21	16	12
4" x 4" x 3/8"	59	40	30	21
6" x 6" x 1/4"	130	88	67	46
8" x 8" x 5/16"	138	92	70	48
7" x 24" x 3/8"	155	105	78	53
10" x 13" x 3/8"	160	109	81	55
10" x 16" x 3/8"	175	117	88	60
10" x 20" x 1/2"	143	95	72	49
12" x 12" x 3/8"	170	115	87	58
12" x 12" x 5/16"	205	137	103	70
13" x 13" x 3/8"	183	125	94	63
16" x 16" x 3/8"	225	153	115	77
20" x 20" x 3/8"	285	188	143	96
20" x 20" x 1/2"	210	143	106	72
20" x 40" x 1/2"	282	189	142	95
24" x 24" x 3/8"	337	225	172	115
24" x 24" x 1/2"	252	170	128	86

COVERAGE TABLE (in sq.ft.) • For 1.25 kg (2.75 LB)				
Tile Size	Joint width			
	1/8"	3/16"	1/4"	3/8"
3/4" x 3/4" x 1/4"	5	3	2	2
1" x 1" x 3/8"	4	3	2	1
2" x 2" x 3/8"	8	5	4	3
4" x 4" x 3/8"	15	10	7	5
6" x 6" x 1/4"	33	23	16	11
8" x 8" x 5/16"	35	25	17	11
7" x 24" x 3/8"	40	28	19	13
10" x 13" x 3/8"	43	28	19	13
10" x 16" x 3/8"	46	30	22	14
10" x 20" x 1/2"	37	25	18	12
12" x 12" x 3/8"	45	30	20	14
12" x 12" x 5/16"	55	35	24	17
13" x 13" x 3/8"	49	32	22	15
16" x 16" x 3/8"	60	38	15	18
20" x 20" x 3/8"	75	50	33	23
20" x 20" x 1/2"	57	37	25	17
20" x 40" x 1/2"	75	50	33	22
24" x 24" x 3/8"	90	60	40	28
24" x 24" x 1/2"	65	45	30	20

## COVERAGE CHART WHEN USED AS AN ADHESIVE (WITH TROWEL)

Coverage:	
1/4" X 1/4" trowel	5 kg cover approx. 14 ft <sup>2</sup>
1/4" X 3/8" trowel	5 kg cover approx. 11,2 ft <sup>2</sup>
1/2" X 1/2" trowel	5 kg cover approx. 9,2 ft <sup>2</sup>

## CHEMICAL RESISTANCE

Product	30 minutes	Intermittent exposure 24 hours	Constant exposure 7 days
Lactic acid 5% (milk)	R	R	R
Citric acid 5% (Gatorade)	R	R	R*
Sulphuric acid 10%	R	R	NR
Methanol	R	R	NR
Phosphoric acid 80% (coca-cola)	R*	NR	NR
Isopropanol (Windex)	R	R*	R*
Ethanol 10% (wine, beer)	R	R*	R*
Mineral water	R	R	R
Vinegar	R	R	R
Chloride sodium 10% (NaCl)	R	R	R
Detergents	R	R	R
Sugar	R	R*	R*
Gas / oil	R	R	R
Cooking oils	R*	R*	R*
Turpentine	R	R	R
Minerals spirits	R	R	R
Toluene	R	R	NR
Xylol	R	NR	NR

Legend : R = Resistant • NR = Non resistant

\* The properties of the epoxy will not be affected, although the colour may change when in contact with this product.

## TECHNICAL NOTES

- If the installation is in a shower, wait at least 7 days before using it.
- The ambient temperature will have an effect on the pot life of the product, it will also affect the installation of the epoxy. The higher the temperature, the shorter the pot life of the mix, and the lower the temperature, the longer the pot life.  
18°C = 90 minutes  
22°C = 70 minutes  
30°C = 30 minutes
- As the epoxy contains sand, ensure that the tiles can be grouted using a sanded grout. Other highly porous natural stone tiles (e.g. salte, marble limestone) must be sealed before grouting. Epoxy grout may "scratch" glass tiles, soft or polished marble and stone. Test the grout on a small area to ensure compatibility.
- Make sure that the marble, granite or tiles are compatible for use with coloured grout. Review the tile or marble manufacturer's literature and test grout on a separate sample area before grouting to determine the product's suitability for coloured grouts.
- Grout when temperature is between 10°C and 32°C (65°F and 75°F).
- For indoor use only
- Do not use in submerged areas (pools, hot tubs or fountains)

## INSTRUCTIONS

### UNDERLAYMENT

The underlayment is the most important step for a long lasting result. Refer to the "Good supports" technical bulletin on our website. The underlayment must meet the TTMAC and the TCA standards.

### SUBSTRATE PREPARATION



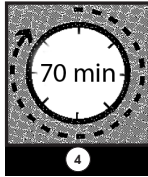
Make sure that the tiles are firmly in place and that the appropriate mortar was used. It is important that the initial curing time of the mortar is respected prior to installation of epoxy grout. Tiles must be clean and free of residue. Joints must be free of mortar at 2/3 of their depth and width must be between 1/8" and 3/8". This epoxy grout has been adapted for the grouting of glass tiles, but it might scratch marble and limestone. Test the grout on a small area to ensure compatibility.

### MIX

Wearing gloves is recommended since the resin, hardener and paste may be corrosive and allergenic.

1- Mix the paste and liquid together included in the POLY 800 PRECISION pail (1) Make sure that the liquid has all been used (2).

2- (3) Mix until a smooth paste is obtained. Use a mixer on low speed (approximately 150 RPM) the 1.25 kg containers can be mixed by hand with the help of an adequate tool. As of this moment, you have approximately 70 minutes to apply your epoxy grout (4).



### APPLICATION & CLEANING

It is important that the following steps are carried out on small surfaces at a time and that they are repeated until the job is complete.



**1** - Once the epoxy grout has been prepared, you must immediately fill the joints using a stiff rubber epoxy float. Apply POLY 800 PRECISION with a firm pressure using the float while working diagonally to the joints to ensure that the grout penetrates well and to prevent air pockets. For vertical installation wait 10 to 15 minutes, so that the epoxy can thicken prior to it's application.



**2** - Remove the excess grout from the surface of the tiles by using the stiff rubber epoxy float at a 90° angle, always on a diagonal motion from the joints.



**3** - Once the grout has been spread, wait 20 minutes before cleaning, giving grout time to set properly into the joints (see TIP below). Use a high density sponge and water at room temperature to clean the surface of the tiles. Using a damp sponge, gently wipe off the tile surfaces with a light circular motion.

**Do not use too much water. This formula is water based so you don't need a lot of water to clean the epoxy grout.** Rinse the sponge often and change the water regularly. This constitutes the first part of the cleaning process. At this stage, the colour of the grout may differ from the one selected. However, as it dries, the colour will adjust. Certain tiles have textured surfaces that require a meticulous cleaning.

**WALL APPLICATIONS:** When cleaning vertically, water might flow out of the joints and small streaks the same colour as the grout will appear on the surface of the tiles. At this stage, this is normal. During the final cleaning (step 4), the grout will be firmly in place and the leaks will clean off easily.

### TIP

During the first wash, you can use a white abrasive pad to ease the cleaning step. Dip the pad in water at room temperature and wring it to limit the amount of water used. Apply a light pressure on the tiles while performing a circular motion to remove residue left behind. It is always preferable to work in a circular motion to break the film of epoxy. After using the abrasive pad, it is important to wipe the surface with a high density sponge diagonally to the joints to complete the cleanup.<sup>(1)</sup>

Repeat steps 1-3.

### 4- FINAL INSPECTION AND CLEANING.



Once all of the POLY 800 PRECISION has been applied and cleaned, proceed with a final cleanup on the entire surface using a damp sponge. This step will limit residues and help smooth out all of your joints. It is important to wring the sponge to remove the maximum of water before you start cleaning. You can also use a clean cloth to remove excess

water following the final cleaning. This step should be preformed about 30 to 60 minutes after the initial cleanup.

### CURING

Avoid circulating over the area to protect your joints for the next 24 hours. After 48 hours, the epoxy will be very firm in the joints, but optimal effectiveness will only be obtained after 14 days. Over the first 24 hours following the installation, if there are residues on the tiles, clean the surface with mild soap, water and a white abrasive pad. If you experience cleaning difficulties after 24 hours, use POLYKLEEN OXY product to remove any remaining residue. For showers, wait 7 days before use. Although the epoxy is stain-resistant, you must clean your joints as needed.

### CLEANING

Promptly clean tools with water while material is still fresh.

### MAINTENANCE

Although the epoxy is stain proof, joints must still be cleaned as required.

## WARRANTY

This product is guaranteed for 1 year when used according to La Margna inc., the TMAX and the TCA instructions. An extension of its warranty is available. For more information, visit our website.

## LEED



Leadership in Energy & Environmental Design (LEED) is a green building rating system that plans, develops, compares and certifies sustainable buildings around the planet. The Canada Green Building Council certifies the project in terms of total points obtained after verifications and an examination of the documentation submitted by the design and construction teams. POLY 800 PRECISION can help to achieve the following credits:

### INDOOR ENVIRONMENTAL QUALITY:

IEQ Credit 3.2 option 3 – Reduce indoor air quality problems  
IEQ Credit 4.1 – Low Emitting Materials

### MATERIALS AND RESOURCES:

MR Credit 5.1 – 10% extracted and manufactured regionally  
MR Credit 5.2 – 20% extracted and manufactured regionally

Refer to the PROFIX website for letters of certification.

## CAUTION



This product contains cement and silica that can irritate skin and eyes. Avoid prolonged contact with skin. In case of contact with eyes, rinse with water.

## HEALTH AND SAFETY

Refer to the MSDS on our website for handling recommendations.

## TECHNICAL SUPPORT

For questions, please contact our customer service PROFIX toll free: 1-800-463-6850 or [info@profixsystems.com](mailto:info@profixsystems.com).

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## LEXIQUE

### POT LIFE

Limite de temps pendant lequel le produit peut rester dans la chaudière et demeurer utilisable. Après ce temps, le produit sera beaucoup plus difficile à utiliser et commencera à sécher, rendant le travail et le produit beaucoup moins efficaces.

### INITIAL SET

Temps minimum à respecter avant de permettre une circulation légère (ex. : le poids d'une personne). Avant le temps indiqué, il faut éviter toute circulation.

### FINAL SET

Prise finale du produit.

### ANSI

**Epoxy Grout (ANSI A118.3-1992):** A grout similar in composition to epoxy mortar but normally supplied in a variety of colours and formulated to permit clean up with water. Chemical resistance and temperature resistance of products should be determined by reference to manufacturer's literature. With tiles thicker than 13 mm, it may be very difficult to completely fill joints less than 6 mm wide.

### LIABILITY

Before using, the user shall determine the suitability of this product for its intended use and the user alone shall assume all risks and liabilities in connection therewith. La Margna Inc. shall not accept any liability for any damage, loss or prejudice resulting from the direct or indirect use of our product in non-compliance to our specifications. • April 1, 2012