

# HighBond EPO - TG

Epoxy Based, Two Component Grout (super quality) for Granite, Ceramic and Marbles

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## Product Description

Epoxy resin based, two-component, chemical and bacteria resistant and high-quality adhesive and joint sealant that is used for attaching materials such as ceramics, marbles, granites, antacid ceramics, glass mosaics and glass bricks and which can be cleaned with water.

## Areas of Application

- Joints of coverings and wall coatings where high chemical and mechanical strength is desired.
- Structures such as laboratories, hospitals, stores, etc. thanks to its resistance against chemicals and acids.
- Anti-bacterial and anti-fungus grout.
- Slaughter houses, dairies, catering facilities and food industry structures thanks to its resistance against organic salts.
- Thermal swimming pools, mineral water / salt reservoirs, zoos and industrial chemical facilities which require resistance against corrosive water.
- For vertical and horizontal applications of internal and external parts of buildings.
- For filling in the joints of existing ceramics, marbles, granites, antacid ceramics, glass mosaics and glass bricks.
- Soft drinks and fruit juice facilities.
- Milk, cheese and yoghurt facilities.
- Sauce, pickle and canned food facilities.
- Meat and fish industry, medicine, paint, paper, accumulator and fertilizer facilities.



## Advantages

- Suitable for potable water reservoirs, Bears antibacterial characteristics and does not create mold, fung or bacteria.
- Suitable for wet areas.
- Solvent-free.
- Very high chemical and mechanical abrasion strength.
- Anti- bacteria and anti- fungus.

### Disposal

Empty packages can be thrown to the collection bins according to regional-local regulations or recycling rules. After drying up and hardening the used waste material, throw it away as construction waste material. It is dangerous to dispose of product wastes by burning them.

### Points to Take into Consideration

Keep the products in places out of reach of children. Always keep the cover of the products closed. It is recommended to wear gloves and goggles during operation. In case of contact of skin with the material, it should be washed with soap and water immediately. In case of contact with the eye, see your doctor immediately.

### General Considerations

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- Easy to apply, non-sag with good workability.
- Resistant against chemicals, acids, alkalis and lubricants.
- Does not keep dirt after application and very easy to clean.
- Resistant against short term sudden temperature changes.
- Can be applied using trowel or muzzel loader mortar gun.

## Technical Data

<b>Color</b>	<b>White, Grey, Beige (it is possible to manufacture desired special colors)</b>
<b>Density</b>	<b>~1.70 gr /cm<sup>3</sup> mix of A+B sets (at 23 °C)</b>
<b>Application Time</b>	<b>~ 40 minutes (at 23 °C)</b>
<b>Exposed Waiting Time</b>	<b>~ 25 minutes (at 23 °C)</b>
<b>Time to Step on</b>	<b>24 hours (at 23°C)</b>
<b>Opening for Traffic</b>	<b>7 days(at 23 °C)</b>

## Standards

HighBond EPO -TG complies with ISO 13007-3 as RG reaction resin tile grout.

## Method of use

- Before grouting ensures that the adhesive has completely dried and hardened.
- Adhesive should be left for 24 hours before applying the grout.
- All tiles and joints must be clean and free from oil, grease or loose materials.
- Remove the tile spacers and ensure that the grout joints are uniform and their width does not exceed 7 mm to avoid slumping.

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## Consumption

Ceramic sizes	Consumption Table for Epoxy Based Joint Sealants (Depth : 8mm)						
	Joint Widths						
	2 mm (gr/m <sup>2</sup> )	3 mm (gr/m <sup>2</sup> )	4 mm (gr/m <sup>2</sup> )	5 mm (gr/m <sup>2</sup> )	6 mm (gr/m <sup>2</sup> )	8 mm (gr/m <sup>2</sup> )	10 mm (gr/m <sup>2</sup> )
10 x 10	600	900	1200	1500	1800	2400	3000
10 x 20	500	700	950	1150	1400	1850	2300
15 x 15	400	600	800	950	1150	1550	1900
15 x 20	350	550	700	900	1100	1400	1800
20 x 20	325	500	650	800	1000	1300	1650
20 x 25	300	450	600	750	900	1200	1500
20 x 30	275	400	550	700	800	1100	1400
30 x 30	250	350	450	550	650	900	1100

\*Consumption amounts are theoretical.

## Mixing

Drill mixer fitted with a suitable paddle should be used for mixing. Add the entire content of the hardener to the coloured base, taking care that the bottom and sides of the hardener pack are thoroughly scraped.

Start mixing with low speed (300 - 400 rpm) for a minimum of 3 minutes until a uniform lumps-free paste is obtained.

Manual mixing is not allowed.

## Method of Use

### Surface Preparation

Joint surfaces should be clean and free from dust or any contamination.

Joints should be cleaned to the full thickness of the tile or to a minimum depth of 2/3 of the tile thickness.

Joints should be dry before grout filling.

## Storage

HighBond EPO-TG has a shelf life of Shelf life is approximately 1 year. Products should be stacked in a cool and dry place.

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## Placing and Finishing

Introduce the mixed paste to the prepared joints using a proper rubber float or stainless steel scraper to fill the joints completely with HighBond EPO-TG. Remove the excess material by moving the float or the scraper diagonally over the surface.

It is recommended to remove the excess material from the tile surfaces before the material fully cures to avoid any difficulty in cleaning the surfaces. All excess material should be cleaned using wet sponge within 30 minutes after application of HighBond EPO-TG at 25°C.

## Working Conditions

The typical ambient temperature for the application of HighBond EPO-TG is between 15 - 30°C. Lower temperatures will make the material denser and more difficult for application, while at higher temperatures it is recommended to apply the product as fast as possible as this will reduce the pot life and working time of the mixed material.

## Packaging

HighBond EPO-TG is available in 5 kg (A+B) sets.

## Cleaning

Cleaning should be commenced immediately before the grout reaches initial setting. After initial set, product may be removed either by using solvent or by mechanical means but with great difficulty.

## Cleaning

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## Fire

HighBond EPO-TG is nonflammable.

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