



High compressive strength, chemical resistance, stain resistance, abrasion resistance, low water absorption and anti bacterial qualities make it ideal solution for industrial applications, hospitals, kitchens, heavy traffic areas in dry as well as wet conditions



weberjoint poxy

## Product description

**weberjoint poxy** resin and hardener kit can be mixed with any colored filler to form an epoxy system which is 100% solid, reaction resin based, impervious suitable for applications on all types of tiles and stones. When mixed as per instructions, it forms to a smooth, creamy easy-to-apply consistency which on final setting delivers high mechanical strength, impact and abrasion resistance. It is also recommended for hygiene sensitive areas requiring sterile conditions, stain and chemical resistance. Weberjoint poxy can be used as a heavy duty grout. It is easily water cleanable as per ISO 13007, Part 4 & ANSI 118.3.

## Features and benefits

- Easy-to-use with superior workability & water clean ability.
- Non sagging properties for ease of application in walls & floors.
- Resistance to stains & chemicals.
- Very low water absorption.
- Early flexural properties.
- For grout joints between 2 mm-14 mm.
- High resistance to abrasion.
- High Compressive strength.
- Very low shrinkage exceeds international standards.
- Hygienic in service & would not support bacterial growth.
- Low VOC - Over curing full reaction takes place.

## Conformity to standards

- Resistance to stains & chemicals exceeding ANSI 118.3.
- Water clean ability as par ANSI 118.3.
- Flexural Strength exceeding ISO 13007.
- Resistance to abrasion as par ISO 13007.

- High compressive strength exceeding ISO 13007, Part 4- Clause-4.1.4.
- Very low shrinkage exceeding ISO 13007-Part 4.
- Very low absorption exceeding ANSI 118.3.

## Usage of weber epoxy as grout

- Anti-stain properties makes it suitable for grouting ceramic, vitrified & porcelain tiles, large format tiles/stones, low thickness slabs, natural & artificial stones.
- High compressive strength along with its chemical resistant properties and non sagging properties makes it suitable for industrial applications like chemical industries, laboratories, production & storage workshops, paper mills, dyeing plants, tanneries, food industries, breweries, commercial kitchens, battery rooms, workshops, dairies, & processing plants. Please refer to the chemical resistance chart in case of extreme industrial conditions.
- Resistance to bacteria & fungal growth makes it suitable for hospitals, operation theaters, clinics & kitchens.
- Low water absorption and resistance to a wide degree of temperature variation ensures it can be used for wet areas, swimming pools, spas, jacuzzis, bathrooms, public toilets and showers.
- High abrasion resistance makes it suitable for usage in heavy traffic areas like subway stations, shopping malls & airport terminal buildings.
- Suitable for external application in terms of performance in mechanical properties

## Limitations

- Suitable for joint widths between 2 mm & 14 mm.

- weberjoint poxy application should not be done in excessive heat. After full curing weber epoxy would resist temperatures between 0°C - 80°C.
- When weberjoint poxy is used on exterior installations, color variations may occur over time especially with lighter shades due to ultra violet rays or environmental contaminants.
- Please ensure compatibility of the tiles/stones with the pigmented filler mixed with the epoxy kit. Please refer to the methodology of application section and the literature of the tile/stone manufacturer taking suitable precaution. It is always advisable to test a small sample area before grouting the entire area.

## Method of application

### Surface preparation

- The tiles/stones should be firmly set & the adhesive or mortar should be completely dry.
- The spacers should be removed before grouting. Grout joints must be clean and free of standing water, dirt, dust & foreign matter.
- Excess of adhesive or mortar should be removed from the joint area so that at least 2/3 of the tile depth is left available for grouting.
- The tiles/stones should not be cleaned with acid cleaners. All joints should be cleaned by washing with water/detergent. Any water or moisture present during grouting can cause the breakdown of the epoxy and make it susceptible to absorbency and discoloration.
- Ensure the joints are completely dry before grouting.

### Mixing

- Please ensure proper personal protective equipment's (PPE) before mixing.
- Take 2 parts resin, 1 part hardener & 8 parts

filler by in ratio of 2: 1: 8 by weight and in case of volume in ratio of (2: 1: 6 by volume).

- Mix the resin & hardener for a minute. Add 80% of filler and mix for 2 minutes. Then add balance 20% of filler and mix all the components for another 2 minutes to get a homogeneous paste and consistent color.
- Prolonged mixing is to be avoided as it traps air and shortens pot life.
- The mixed workable grout can be used upto 45 minutes at 27°C.
- Wash tools immediately with water before the epoxy hardens. It is very difficult to remove after it has hardened.
- In case of mixing with a mechanical mixer a slow 100 rpm mechanical mixer is recommended.
- No water to be added in the mix.

### Product application

- Before the application process ensure proper PPE. Only grout a small area at a time and ensure that the joints are firmly filled and free of voids.
- The application is done using a rubber float or an appropriate tool.
- The float is used to force the grout into the joints in a continuous manner, leaving it flush with the tile edge.
- Wipe off any excess material immediately with a sponge or an appropriate tool. Use a damp sponge to clean the tiled surface. Use the sponge in circular motion to get optimum results.
- It should be ensured that minimum amount of water is required in cleaning which otherwise impair the final chemical resistance.
- The area should be cordoned to prevent any accidental damage to the grout.
- For vertical surfaces a non-abrasive cloth or pad can be used to loosen any film and removing it without remove the epoxy from

the joints. Our current scrubber is of abrasive type.

- For small touch ups during grout joint imperfections, a suitable sharp tool can be used to do it.
- It is recommended that for horizontal surfaces the final cleaning and touch ups should be done within 30 min from the application & for vertical surfaces it is done within 20 min from application.

### Maintenance

- Keep the working area protected for 48 hours after application. For swimming pools, it is required to be kept protected for 72 hours.
- Weber epoxy grouts require routine cleaning with neutral pH soap water. Harsh chemicals are not recommended.
- Performance and durability would depend on the maintenance of the installed area.
- For any household acid cleaning to be done after 7-14 days of application.

## Conformations to standards

### ISO 13007

Classification code	Test characteristics	Specification standard	Test Results
RG (reaction resin grout)	Abrasion resistance	< 250 mm <sup>3</sup>	210 mm <sup>3</sup>
	Flexural strength	> 30 Mpa	32 Mpa
	Compressive strength	> 45 Mpa	62 Mpa
	Shrinkage (mm/m)	< 1.5 mm/m	0.18 mm/m
	Water absorption	< 0.1 g	0.07 g

### ANSI specification

Classification code	Test characteristics	Specification standard	Test results
ANSI A118.3(5.1)	Water clean ability	80 min	88 min
ANSI A118.3(5.2)	Initial setting time	>120 min	160 min
	Service setting time	<7 days	6 days
ANSI A118.3(5.3)	Shrinkage	<0.25%	0.09%
ANSI A118.3(5.4)	Sag in vertical joints	No change	No change
ANSI 118.3	Tensile strength, N/mm <sup>2</sup>	> 7 Mpa	9.2 Mpa
ANSI 118.3	Thermal shock, N/mm <sup>2</sup>	> 3.5 Mpa	4.6 Mpa
	US FDA 21 CFR 175.300	Passes	Passes

## Conformations to standards

### Chemical Resistance Chart

S.No	Chemicals	Dark Shade		Light Shade	
		>30Mins Contact	>24 Hrs Contact	>30Mins Contact	>24 Hrs Contact
1	Sulfuric Acid 50%	■	■	■	■
2	Nitric Acid 25%	■	■	■	■
3	Nitric Acid 50%	□	□	□	□
4	Nitric Acid 100%	□	▲	□	▲
5	Benzoic Acid 5%	■	■	■	■
6	Phosporic Acid 80%	□	▲	□	▲
7	Acetic Acid 2.5%	■	■	■	■
8	Acetic Acid 5%	■	■	■	■
9	Acetic Acid 10%	■	■	■	■
10	Acetic Acid 100%	□	▲	□	▲
11	Oleic Acid	□	□	□	□
12	Oxalic Acid 10%	■	■	■	■
13	Tartaric Acid 50%	■	■	■	■
14	Alcohol	■	■	■	■
15	Lactic Acid 5%	□	▲	□	▲
16	Toluene	□	□	□	□
17	Methylene Di chloride	□	□	□	□
18	Chloroform	■	■	■	■
19	Sodium Hydroxide 50%	■	■	■	■
20	Tanic Acid 50%	■	■	■	■
21	KMnO <sub>4</sub> 1%	■	□	■	□
22	KMnO <sub>4</sub> 10%	□	▲	□	▲
23	Turmeric	■	■	■	■
24	Wine	■	■	■	■
25	Oil	■	■	■	■
26	Acetone	■	■	■	■
27	Xylene	■	■	■	■
28	Tomato ketchup	■	■	■	■
29	Coffee	■	■	■	■
30	Hair dye	■	■	■	■
31	Bleach	■	■	■	■
32	Tea	■	■	■	■
33	Toilet cleaner (Acidic)	■	■	■	■
34	Toilet Cleaner (Basic)	■	■	■	■
35	Toilet Cleaner (Neutral)	■	■	■	■

■ = Resistant      □ = Limited Resistant      ▲ = Not Resistant

## Coverage chart

Grout consumption in Kg/m <sup>2</sup>									
Size of tile in mm	Joint Width in mm								
	2	3	4	5	6	7	8	9	10
200X300X8	0.21	0.31	0.41	0.51	0.61	0.70	0.80	0.89	0.98
250X400X8	0.16	0.24	0.32	0.40	0.48	0.56	0.63	0.71	0.78
300X300X8	0.17	0.25	0.33	0.41	0.49	0.57	0.65	0.72	0.80
300X300X10	0.21	0.31	0.42	0.52	0.62	0.71	0.81	0.90	1.00
300X300X12	0.25	0.38	0.50	0.62	0.74	0.86	0.97	1.09	1.20
300X450X8	0.14	0.21	0.28	0.35	0.41	0.48	0.54	0.61	0.67
300X450X10	0.18	0.26	0.35	0.43	0.52	0.60	0.68	0.76	0.84
300X450X12	0.21	0.31	0.42	0.52	0.62	0.72	0.82	0.91	1.01
300X600X8	0.13	0.19	0.25	0.31	0.37	0.43	0.49	0.55	0.61
400X400X8	0.13	0.19	0.25	0.31	0.37	0.43	0.49	0.55	0.61
400X400X10	0.16	0.24	0.31	0.39	0.47	0.54	0.62	0.69	0.76
400X400X12	0.19	0.28	0.38	0.47	0.56	0.65	0.74	0.83	0.91
600X600X10	0.11	0.16	0.21	0.26	0.31	0.36	0.42	0.47	0.52
600X600X12	0.13	0.19	0.25	0.31	0.38	0.44	0.50	0.56	0.62

\*\*values are observed with Weber joint poxy fill and are subject to change as per the choice of filler

## Product details

Physical state	Part A - colorless resin, Part B - straw colored hardener
Potlife	45 mins
Full cure	7 days
Application temperature range	0°C to 80°C
Wet density	1.72 g/cc

## Shelf life

2 years from the date of packing.

## Packaging

Pack Size	273 g	1.365 kg	5.46 kg
Resin	182 g	910 g	3.64 kg
Hardener	91 g	455 g	1.82 kg

## Coverage

Wet Density × joint width × tile thickness ×  
 (Length of tile + Breadth of tile)/((Length of Tile +  
 joint width) × (Breadth of tile + joint width))

## Conditions of sale

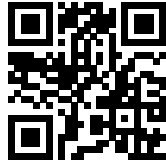
Sold subject to the company's conditions of sale  
 which are available on request.

## Disclaimer

The user should determine the usability of the  
 product for its intended use. Our products are  
 manufactured under the Saint-Gobain quality  
 standards and subjected to strict quality and  
 control procedures. Since the company has no  
 control over site conditions and the installation  
 procedures, the company would not be respon-  
 sible under any circumstances for any loss,  
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Product information



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Scan QR code to download android app for product information and technical data for our complete product range, directly from your smartphone.



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