

Let your true color show  
Weber epoxy translucent grout  
Weber pearl armor



TRANSLUCENT  
GROUT



2 COMPONENTS



EASY TO APPLY  
AND CLEAN



HIGH BOND  
STRENGTH



CRACK  
RESISTANT



CHEMICAL  
RESISTANT



SEEPAGE  
RESISTANT



UV RESISTANT



STAIN  
RESISTANT



TRAFFIC  
RESISTANT

## Product Description

Weber pearl armor is a 2 component, high performance 100% solid epoxy based tile/stone filler which allows light to pass through the grout itself to create an unique reflective appearance. This is brought about by the special formulation with a reflective, spherical, granulated filler in combination with a hybrid transparent resin & polymer. Due to the translucent nature of weber pearl armor, various designs are possible with different colours of glass tiles resulting into a high luster & decorative & visual appearance of glass tiles. Weber pearl armor is thixotropic in nature with a non sag formula which can be applied on horizontal & vertical, interior & exterior, dry wet & submerged conditions in residential & commercial areas. It can be used with ceramic tiles, porcelain tiles, vitrified tiles, glass mosaic tiles, natural & artificial stones and all types of marbles & granites.

## Features & Benefits

- Highly dense, even, compact and a smooth finish results into nonabsorbent, water resistant surface which prevents the growth of bacteria and fungus.
- Easy to mix with a creamy consistency which helps in faster application and ease in cleaning.
- Very low in shrinkage and high resistance to cracks.
- Excellent chemical & stain resistant properties.
- Non sag resistance formula for wall & floor applications.
- High mechanical strength which results in long durability of the grouts.
- It can resist most of commercial cleaners which are used regularly for cleaning tile and stone.
- Two components pre weighed & ready to mix.
- Being translucent in nature, it can be used for fixing glass blocks and areas where background light is desired which cannot be achieved with a cementitious & resin adhesive.
- Very low in volatile organic compounds which allows it to be used in green buildings.

- When applied in between tile and stone will result in invisible grouts unlike cementitious and common epoxy grouts.
- High bonding strength with tiles and stones.
- High translucency increases the chromatic effect resulting into highly aesthetic and decorative finish.
- It can withstand heavy traffic and weathering conditions.
- No color shading even when used in wet and submerged conditions.

## Conformity to standards

- Food Regulation test as per CFR 175-300 US –FDA
- Resistance to abrasion as per ISO 13007-4
- Compressive strength as per ISO 13007-4
- Shrinkage as per ISO 13007-4
- Water absorption as per ISO 13007-4
- Water clean ability as per ANSI 118.3
- Very low absorption exceeding ANSI 118.3

## Usage

- For grouting of varied designs of glass tiles on wall and floor in internal and external areas.
- Installation and grouting of tiles and stones where high aesthetic and decorative finish is required.
- It can be used for application on surface where semitransparency is required like, fixing of glass blocks.
- Grouting & installation in swimming pools, spas, jacuzzis, bathrooms & public toilets and showers.
- It can be used as crack filling in between stone due to its translucent and neutral color.

## Limitations

- Can be used where minimum joint width is 1mm.
- Can be used where maximum joint width of 7mm in vertical and 14mm in horizontal.
- Do not use the grouts in industrial aggressive



chemical prone areas and the areas which are subjected to aggressive cleaning with pressure or steam cleaning.

- For atleast 7 days after grouting, for acid cleaning & submerged conditions.

## Cautions

- Ensure compatibility of the tiles/stones with weber pearl armor.
- 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.
- No water addition to be done in the mix as it will adversely affect the performance.
- Grout needs to be protected from chemical, acid and staining agents during curing process and can be tested after 7-10 days of applications.
- Weber pearl armor is not a replacement of water proofing membrane, consult weber personnel for weber water proofing products.
- Do not inhale or intake, keep out of reach of children.
- Use personal protective equipment like gloves and eyeglass while mixing and application of grouts.
- Always ensure the joints are fully packed, especially in case of irregular and tight joints.
- Grouting needs to be protected for minimum 7 days from rain after application.
- In case of high porous tile and stone use weber sealer to protect the stone prior to grouting.

## Method of application

### Surface Preparation

- The tiles/stones should be firmly set & the adhesive or mortar is completely dry.
- In wet stage adhesive/mortar to be removed from the joints to avoid contamination during grouting.
- Grout joints must be clean and free of standing water, solvent, dirt, dust & foreign matter.

- The spacers should be removed before grouting.
- The tiles/stones should not be cleaned with acid cleaners and all joints should be cleaned by washing with water/detergent.

## Mixing

- Use personal protective equipment before mixing.
- Add hardener component B into the component A container and mix the content for 3-5 minutes with slow speed mixer ensuring proper mixing of the component. Do not prolong the mixing time to avoid air entrapment resulting in reduction of pot life.
- In case of small quantity use approx 7 : 1 ratio by volume of component A (resin) to component B (hardener) and mix thoroughly for 5 minutes with trowel or appropriate tool.
- The mixed workable grout to be used within 45 minutes at 27°C.
- Tools need to be cleaned immediately with water after the application or the hardened material will be difficult to remove.
- No water to be added to the mix.

## Product Application

- Spread the grout on surface with rubber grout float or appropriate tool. It needs to be filled diagonally across the joints, ensuring joints are filled to avoid any free air voids.
- Excess grout to be removed from the tile surface by pulling the rubber float or appropriate tool diagonally across the joint by preventing any grout removal.

## Cleaning & Finishing

- Cleaning to be done 15-20 mins after grouting. Incase of any individual doing the application only grout as much area as can be cleaned in next 15 to

20 mins. In case of team doing application one person should do grouting and other person follow by cleaning.

- Always use fresh and clean water for cleaning and finishing.
- Rinse the scrubber with water and squeeze to completely dry, move the scrubber flat, lightly on the tile surface in circular motion for cleaning and to prevent grout removal from the joints.
- Do not use excessive water while cleaning as it will delay the curing time as well can create haziness on the joints, excess water if any to be removed immediately.
- Water to be changed at regular intervals or when gets water is dirty.
- During cleaning check for down joints if any and to be repaired immediately.
- Allow cleaned area to dry and use dry clean cloth for final cleaning of the grouts.
- No traces of epoxy to be left on the tile, once hardened it is difficult to remove the material from the surface.
- On smooth surface like glass mosaic and glass tile, weber pearl armor can be cleaned with well squeezed clean cloth.

### Precautions during curing

- The grouted area need to be protected from dust, light & foot traffic for minimum 24 hours. Heavy foot traffic can be allowed after 72 hours of application.
- Grouted area of swimming pool, wet, shower, fountain and steam shower areas need to be protected for minimum 7 days from moisture.

### Methodology of application when used as adhesive

- The surface on which application needs to done to be firm, clean, free from dust, laitance, oil, loose particles and bond inhibiting compounds.

- Two components to be mixed as per the mixing ratio mentioned above are to be spread on the surface using notch trowel or appropriate tool.
- Firmly press the tile or stone on the notched surface with slight shear to ensure proper transfer and bonding.
- Once the tile is fixed and properly bonded then the grouting can be done between the tiles.

### Maintenance

- Weber pearl armor requires normal water cleaning. Diluted commercial cleaners can also be used if required.
- For best stain resistance, clean the spills immediately.

### Conformations to standards:

**ISO 13007-4, ANSI 118.3, EN 12003 and CFR175-300 US-FDA**

Test Parameters	Applicable Standard	Results
Abrasion resistance @7days	ISO 13007-4	< 220 mm <sup>3</sup>
Flexural strength @7days	ISO 13007-4	> 35 Mpa
Compressive strength @7days	ISO 13007-4	>50 Mpa
Shrinkage	ISO 13007-4	<0.35 mm/m
Water absorption after 240 min	ISO 13007-4	<0.07 gm
Water clean ability	ANSI 118.3	> 85 minutes
Initial setting time	ANSI 118.3	Maximum 210 min
Service setting time	ANSI 118.3	< 7 days
Linear shrinkage	ANSI 118.3	< 0.1%
Sag in vertical joints	ANSI 118.3	No sag in vertical joints
Tensile Strength	ANSI 118.3	>8 Mpa
Thermal Shock	ANSI 118.3	>7 Mpa
Food Regulation Test	21 CFR175-300 US-FDA	Passes

## Chemical Resistant Chart

S.No	Chemicals	>30Mins Contact	>24 hours Contact
1	Sulfuric Acid 50%	☐	☐
2	Nitric Acid 25%	☐	☐
3	Nitric Acid 50%	◐	◐
4	Nitric Acid 100%	◐	▲
5	Benzoic Acid 5%	☐	☐
6	Phosphoric 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

### Product details

**Component A** : Premixed resin with filler

**Component B** : Light yellow

**Mixing ratio** : Part A: Part B - 11.5 : 1 by weight

Part A: Part B - 7 : 1 by volume

**Consistency** : Creamy paste consistency

**Mixed density** : 1.60 gm/cc

**Potlife** : 45 minutes @ 27°C

**Application temperature range** : 10°C to 35°C

**Open time for adhesive** : 20 minutes

**Adjustability time for adhesive** : 30 minutes

**Setting for light foot traffic** : 24 hours

**Full Cure** : 7 days

**Color** : Translucent white

### Coverage

Wet Density X joint width X tile thickness X (Length of tile + Breadth of tile)/((Length of Tile + joint width) X (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 responsible under any circumstances for any loss, damage or liability from incorrect usage.

**Shelf Life** : 2 years from the date of manufacturing under sealed condition. To be stored in shed and away from direct sunlight.

**Packaging** : Available in 1kg and 5kg packs.

