



Crocodile Epoxy Plus

100% Solids Epoxy Tile Adhesive and Grout



For area where highly bond strength and chemical resistance are concerned

Excellent high bond strength tile adhesives and grouts. It is best for high cleanliness and durable areas such as glass mosaic, resin mosaic, green marbles, natural stones, moisture sensitive materials. This product can install on any surface is concrete, brick walls, old tiles, metal sheet, glass, fiber glass. It is good for areas cleaned by chemicals such as in hospitals, pantry, kitchen, exterior usage, factory, bathroom, swimming pool. Good for health.

Product features

- Excellent tile adhesive and grout, high bond strength and durability.
- Ultimate resistance to harsh chemical and acid. Excellent water resistance.
- Anti-black mold, algae and bacteria with Microban, good for health.
- Excellent water repellent and anti-dirt absorption.
- No pungent smell and Ultra Low VOCs
- Joint width 2-6 mm (Wall), 2-12 mm (Floor)

USA Standard : ANSI A118.3

Color : 14 colors

Installation

Joint width should be between 2-6 mm (wall) 2-12 mm (floor) and depth should not be less than $\frac{2}{3}$ of tile thickness. Recommend applying tile grout 48 hours after tile installation.

Preparation

Clean and remove any dirt or contamination remaining in the joints. Make sure the joints are clean and dry before grouting.

Mixing Ratio

Part A 1 Bag : Part B 1 Bag (Resin 4 : 1 Hardener by weight)

**Mixing**

- Mixture should be done within one use. Separate mixture is not advised, and the mixture should be used within 20-30 minutes (depending on temperature).
- Mix the 2 components together and mix well by hand or low speed drill (<150 rpm) for at least 1 minute by either squeezing out B until very little is left as much as possible.
- Leave the mixture for 5 minutes for chemical curing and stirred the mixture once again, before applying.

Application***Tiling***

- Apply Epoxy Plus on the surface by using a flat side of a trowel. The thickness of Epoxy Plus is approximately 2-3 mm for mosaic tiles and 4-6 mm for ceramic tiles.
- Using an appropriate notched trowel (60° angle), comb Epoxy Plus uniformly in a ridged pattern.
- Lay tiles on Epoxy Plus and press firmly with rubber hammer.
- Keep a minimum of 3/4 of the joint depth available for grouting. Clean off any excess adhesive from surface, tile joint, and trowel within 20-30 minutes (depend on temperature).
- Wait for 48 hours before grouting.

Grouting

- Filling the joints with grout by using a rubber face trowel and working diagonally across the grout joints. As soon as possible, remove all excess grout with the trowel.
- Easy to cleaning, wait for 20-30 minutes (depend on temperature), then use sponge with diluted dishwashing liquid (dishwashing liquid mixed with water 1:100) to remove any remaining grout from the surface of the tile.
- Prevent the grout from dirt for at least 24 hours and clean again with warm water before use the area. Leave at least for 7 days to ensure perfect stain and chemical resistance.

Limitations***Tiling***

- Do not tiling on rubber surface.
- For tiling light colored marble or stone, use white Epoxy Plus.
- Do not tiling in the areas subject to vibration such as heavy machine.
- Do not tiling in the area with temperature lower than 16°C and higher than 35°C

Grouting

- In case of grouting porous or rough-surface tile, test in an inconspicuous place first.
- Do not recommend grouting in the area with temperature lower than 16°C and higher than 35°C. Not appropriate for the area temperature exceeding 100°C
- Grouting only a small area (1 to 2 m²) at a time.
- While cleaning Epoxy Plus from the surface of the tile, change sponge frequency.
- Ready to fill water in the pool after applied 7 days.



Coverage ratio per 1 kilogram

Size of Tiles (in./cm)	Thickness (mm)	Joint width (mm)	Approximate area (sq.m)
1"x1" / 2.5x2.5	4	3	0.9
2"x2" / 5x5	6	3	1.2
		5	0.7
4"x4" / 10x10 (General tile)	6	3	2.5
		5	1.5
		7	1.1
4"x4" / 10x10 (Cray tile)	10	3	1.5
		5	0.9
		7	0.6

Size of Tiles (in./cm)	Thickness (mm)	Joint width (mm)	Approximate area (sq.m)
2"x2" / 5x5	6	3	5.1
		5	3.1
		7	2.2
8"x10" / 20x25	6	3	5.7
		5	3.4
		7	2.4
12"x12" / 30x30	6	3	7.7
		5	4.6
		7	3.3
16"x16" / 40x40	6	2	11.6
		3	7.7

Consumption and size of trowel

Size of trowel	Consumption
Size 3x3 mm	2.67 kg/m ²
Size 6x6 mm	4 kg/m ²

Information

Pot life at 23 ± 2 °C	50 minutes
Waiting time before grouting, keep cement dry at least	48 hours
Time before traffic	24 hours
Joint width	2-6 mm (Wall), 2-12 mm (Floor)
Temperature resistance (Fully cure 7 days)	≤ 100 °C
Sagging resistance in vertical at 20 minutes.	Joint width 6 mm
VOCs Content (WELL and LEED v4, v4.1)	Pass
VOCs Emission (WELL and LEED v4, v4.1)	Pass

Remarks : Test results obtained from laboratories under controlled conditions may result in testing results that differ from the actual site conditions due to many factors such as temperature, environment, equipment, and others.



Technical Data

USA Standard

Test Method by USA Standard (American National Standard Institute)	ANSI A118.3	Standard Requirements A118.3	Result
Water cleanability	Part 5.1	80 minutes	Pass
Linear shrinkage 7 days	Part 5.3	< 0.25%	Pass
Compressive strength 7 days	Part 5.6	> 3500 psi	Pass

Remark : 1 MPa = 1 N/mm² = 10.197 ksc = 145.038 psi

Table of Crocodile Epoxy Plus chemical resistance (ASTM C267)

Chemical name	Result	Chemical name	Result	Chemical name	Result	Chemical name	Result
Acetic acid 3%	R	Butyl Cellosolve	N	Formic Acid 10%	N	Potassium Hypochlorite	R
Acetic acid 10%	N	Calcium Chloride	R	Gasoline	C	Potassium Persulfate	N
Acetic Anhydride	N	Calcium Hydroxide	R	Household Ammonia	R	Pyridine	N
Acetic Acid Glacial	N	Carbon Disulfide	C	Hydrobromic Acid 10%	R	Pyridine 20%	C
Acetone	C	Carbon Tetrachloride	R	Hydrochloric Acid 10%	R	Sat. Sugars Soils	R
Aluminum Fluoride	R	Citric Acid 20%	R	Hydrochloric Acid 30%	R	Sodium Carbonate	R
Amyl Alcohol	R	Chloroacetic Acid 50%	N	Hydrofluoric Acid 10%	R	Sodium Hydroxide 10%	R
Ammonia 10%	R	Chloroacetic Acid 100%	N	Hydrofluoric Acid 48%	R	Sodium Hydroxide 40%	R
Ammonia 25%	R	Chlorobenzene	N	Hydriodic Acid 20%	R	Sodium Hypochlorite 10%	N
Aniline	N	Chlorine Water (Bleach)	R	Lactic Acid 3%	N	Soy Sauce	R
Barium Hydroxide	R	Chromic 10%	R	Lactic Acid 10%	N	Sulfuric Acid 10%	R
Beer	R	Cooking Grease	R	Methyl Ethyl Ketone	C	Sulfuric Acid 30%	N
Benzaldehyde	N	Cresol	N	Nitric Acid 10%	N	Sulfuric Acid 80%	R
Benzene	N	Diesel B7	R	Nitric Acid 40%	N	Tetrahydrofuran	N
Benzyl Acetate	C	Ethyl Alcohol	C	Nitrobenzene	N	Trisodium Phosphate 5%	R
Benzyl Alcohol	N	Ethyl Amine	N	Nitrotoluene	N	Vegetable Oil	R
Bromide Water	R	Ethyl Bromine	N	Phenol	N	Water	R
Butanol	R	Ferric Chloride	R	Phosphoric Acid 10%	R	Wine	R
Butyl Acetate	N	Formic Acid Glacial	N	Potassium Hydroxide 5%	R	Xylene	C

Key :

R = No visual deterioration and compressive strength > 4,000 psi

C = No visual deterioration and compressive strength < 4,000 psi

N = Visual Deterioration



Caution

- May be harmful to the eyes, skin, or lungs. Wear suitable protective clothing, gloves, and eye/face protection.
- In case of contact with eyes, rinse immediately with water and seek medical advice.
- After contact with skin, wash immediately with water.
- Keep out of reach of children.
- Do not eat.

Storage

- It should be kept in a dry place and the temperature is not too high to avoid product's degradation.
- Use within 1 year from the date of manufacturing.

Packing

Net weight : 2 kg / Set (Part A 1,600 g : Part B 400 g)

The information provided is given in good faith, based on current knowledge and Jorakay Corporation's experience with the products when they are properly stored, handled and applied in normal situations and in accordance with the recommendations of Jorakay Corporation. This is useful for information and consulting but is not legally binding. In particular, it does not exempt the user from testing and verifying the suitability of the product for the desired application and purpose. Jorakay Corporation reserves the right to modifications that improve the product or its application. This version invalidates the previous ones.