



Davco

ULTRA EPOXY TILE GROUT



TILE GROUT

100% SOLID EPOXY GROUT



CHARACTERISTICS

- High performance 2 components 100% solid epoxy grout.
- For tile gap between 1-15 mm.
- Excellent bonding strength, can be used for tiling.
- Excellent resistance to chemical, black mold and stain.
- Suitable for fully immersed area such as swimming pool, fish pond, fountain and spa.
- Suitable for high hygienic installations such as hospitals, factory, veterinary clinic, commercial kitchen and laboratories.
- Easy to apply and easy to clean up.
- 3 colors available.

DESCRIPTION

DAVCO ULTRA EPOXY is a 100% solid epoxy grout with very high performance. It offers maximum protection against staining and chemical damage. It is suitable for immersed water areas.

USES

- Wall/Floor, Interior/Exterior.
 - Clinical sanitation.
 - Commercial kitchens
 - Hospitals.
 - Commercial food processing plants.
 - Laboratories.
 - Industrial.
- Immersed area.
 - Swimming pool.
 - Spas.
 - Steam rooms.
 - Car wash.

WORK INSTRUCTIONS

Surface preparation

1. The tiles must be securely fixed.
2. Joint must be clean and dry.
3. The gap between tiles should not exceed 15 mm.

COVERAGE

- 2-4 m²/1 kg.
(depend on the size and thickness of tiles joint).

PACKAGING

- 4 kg. can set Part A 3 kg. Part B 1 kg.
(6 set in carton box)

STORAGE

- 1 year from date of manufacture
if stored in unopened original
packaging in dry condition.



Gap 1-15 mm.



Waterproof



Excellent Resistance
to Chemical



Prevent
Black Mold



Product preparation

1. Use power drill with mixing paddle on slow speed.
2. Stir Part B (hardener) liquid. Then add the entire content of Part B 1 kg. to the Part A 3 kg. (resin) in a container.
3. Mix DAVCO ULTRA EPOXY part A and B with power drill until the compound is evenly distributed, lump-free and thick creamy paste is achieved.
4. Ensure to scrape bottom and sides of container during mixing.
5. DAVCO ULTRA EPOXY should be used within 15-30 minutes after mixing. (depend on working temperature.)

Application

1. Wait 24 hours after tilling to apply grout.
2. Use a rubber float to fill the joint in diagonal motion and carefully remove excess grout sitting on the tile.
3. Make sure the grout is forced into the joint and not just sitting on the top.
4. Clean with a damp sponge.
5. Remove surplus material from the face of the tiles with a dry cloth.

PRECAUTIONS

- Do not apply the product if humidity of substrate is higher than 80% R.H.
- Temperature range for use : 10°C to 35°C.
- Remove DAVCO ULTRA EPOXY grout from tools, equipments and tiles with clean water immediately after the application.
- Mixing ratio of Part A 3 kg. and Part B 1 kg. must be strictly follow. Wrong mixing ratio will result in poor performance of product hardness and setting time.

SPECIFICATIONS

Typical Properties of mixed material.

- Working time at 25°C (min) : 90 min
- Working time at 35°C (min) : 30 min

Compressive Strength (ASTM C 109)	Evaluation
28 Days	> 80 N/mm ²
Tensile Strength (BS 6319 : Pt7)	Evaluation
28 Days	> 15 N/mm ²

Testing items	Day	ANSI A 118.3	DAVCO ULTRA EPOXY
Water Cleanability		80 min	80 min
Initial setting time, service strength setting time		> 2 hr	9 hr
Shrinkage of the mixed component during cure	7 days	≤ 0.25%	0.01%
Sag in vertical joints		No change in shape of the joint shall be noticeable	No change
Bond strength to quarry tile		> 69.8 kg/cm ²	>93 kg/cm ²
Compressive strength	7 days	≥ 244 kg/mm ²	>350 kg/cm ²
Tensile strength of the cure material	7 days	> 69.8 kg/cm ²	>90 kg/cm ²
Thermal shock test	14 days	> 34.9 kg/cm ²	>53 kg/cm ²

List of Chemical Resistance

√ = Good resistance X = Not recommended

(Acid Group)		
CHEMICAL	CONCENTRATION (%)	LAB RESULT
Acetic acid	2.50%	√
Acetic acid	5%	√
Acetic acid	10%	X
Hydrochloric acid	37%	√
Chromic acid	20%	X
Citric acid	10%	√
Formic acid	2.50%	√
Formic acid	10%	X
Lactic acid	2.50%	√
Lactic acid	5%	√
Lactic acid	10%	√
Nitric acid	25%	√
Nitric acid	50%	X
Pure oleic acid		X
Phosphoric acid	50%	√
Phosphoric acid	75%	√
Sulphuric acid	1.50%	√
Sulphuric acid	50%	√
Sulphuric acid	96%	X
Tannic acid	10%	√
Tartaric acid	10%	√
Oxalic acid	10%	√

(Alkaline)		
CHEMICAL	ACTIVE CHLORINE CONCENTRATION	LAB RESULT
Sodium hypochlorite in solution	6.4g/l	√
Sodium hypochlorite in solution	162g/l	X



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(Alkaline)		
CHEMICAL	CONCENTRATION (%)	LAB RESULT
Ammonia in solution	25%	✓
Caustic soda	50%	✓
Potassium permanganate	5%	✓
Potassium permanganate	10%	✓
Potassium hydroxide	50%	✓
Sodium bisulphite	10%	✓

(Oil and fuel)		
CHEMICAL	CONCENTRATION (%)	LAB RESULT
Petrol, fuel	-	✓
Turpentine	-	✓
Diesel fuel	-	✓
Tar oil	-	✓
Olive oil	-	✓
Light fuel oil	-	✓
Petrol	-	✓

(Solvent)		
CHEMICAL	CONCENTRATION (%)	LAB RESULT
Acetone	-	X
Ethylene glycol	-	✓
Glycerine	-	✓
Methylene glycol acetate	-	X
Perchloroethylene	-	X
Carbon tetrachloride	-	✓
Ethyl alcohol	-	✓
Trichloroethylene	-	X
Chloroform	-	X
Methylene chloride	-	X
Tetrahydrofuran	-	X
Toluene	-	X
Carbon sulphide	-	✓
White spirit	-	✓
Benzene	-	X
Trichloroethane	-	X
Xylene	-	X
Mercuric chloride (HgCl ₂)	5%	✓
Hydrogen peroxide	1%	✓
Hydrogen peroxide	10%	✓
Hydrogen peroxide	25%	✓

(Saturated solution +20°C)		
CHEMICAL	CONCENTRATION (%)	LAB RESULT
Sodium hyposulphite	-	✓
Calcium chloride	-	✓
Ferric chloride	-	✓
Sodium chloride	-	✓
Sodium chromate	-	✓
Sugar	-	✓
Aluminium sulphate	-	✓

COVERAGE

- The coverage and consumption of grout varies depending upon the size and thickness of tiles and the width of tile joint.

Estimation Usage of Epoxy Tile Grout		
Tile Size (mm.)	Joint Width (mm.)	Rate of Use (kg/m ²)
25 x 25 x 4	3	1.6
50 x 50 x 6	3	1.2
	5	2
100 x 100 x 6	3	0.6
	5	1
	7	1.4
100 x 100 x 10	3	1
	5	1.7
	7	2.3
200 x 200 x 6	3	0.3
	5	0.5
	7	0.7
200 x 250 x 6	3	0.3
	5	0.5
	7	0.7
300 x 300 x 6	3	0.2
	5	0.4
	7	0.5
400 x 400 x 8	3	0.2
	5	0.4

** Waste will be occurred according to actual field performance including working method, skill and site condition.

3 COLOURS



Shading of the colour samples maybe somewhat different from the actual colours.