

TRUBUILD STAIN FREE EPOXY GROUT

Epoxy Tile Grout



TECHNICAL DATA SHEET

VER NO. 1.1

TRUBUILD STAIN FREE EPOXY GROUT is a three-component prepacked Epoxy grout which is specially designed for grouting of ceramic tiles, vitrified tiles and stone where staining is expected. It provides a stain-free, chemical resistant, hard wearing tile joint. Meets the requirement of **EN 13888:2009, ISO 13007-4:2015 & ANSI 118.3:1999**



ADVANTAGES



- Stain free & easily cleaned
- Easy to install and clean
- Available in a range of attractive colours
- Resists bacterial growth
- Resistant to mild chemicals & acids
- Non-cracking or powdering
- Water cleanable when fresh

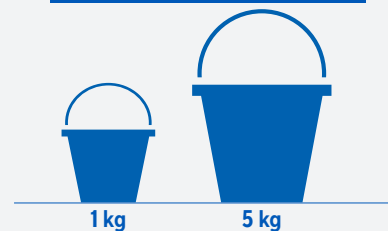
AREA OF APPLICATIONS



APPLICATIONS

- Bathrooms, fountains and swimming pools
- Kitchens, cafeterias, restrooms, schools
- Factories, workshops and ware houses
- Pharma industry, hospitals & labs
- Commercial & residential buildings

AVAILABLE PACKING



HOW TO USE

1. Remove dust, oil, debris and sealer from the joints with the help of a wire brush or air blower.
2. Take Part-A & Part-B into a suitable container and mix perfectly with a trowel or a slow drill mixer.
3. Now add Part-C powder in this mix slowly to get a uniform consistency. Mix as stiff as possible to work into the joints.
4. Using a hard rubber grout float, compact the grout into the joints ensuring that they are completely filled. Work in small areas and remove as much excess from the tile surface as possible. Strike off excess materials diagonally to the grout lines.
5. Plug open-ended joints with the stiffer mix to prevent any slumping of the grout joints from occurring.
6. Within 30 minutes of application, clean off surplus grout. Use an EMULSIFYING PAD & GRIPPER dampened with clean water to break down (emulsify) the grout residue. Use a circular motion and keep the pad and gripper flat relative to the tile surface to achieve a flush joint. Warm water, although not essential will greatly ease the emulsification process.
7. Do not allow water to flow/ run into ungrouted joints.
8. Clean off the emulsified epoxy/ water residue with a fine sponge, taking care not to drag grout from the joints, clean diagonally to the grout lines. Tool joints to finish.
9. Any light haze remaining on the tile surface can be cleaned off the next day using the EMULSIFYING PAD & GRIPPER and an alkaline detergent. Do not allow the haze to remain on the surface for any longer than 24 hours.

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TECHNICAL DETAILS

TECHNICAL DETAILS AS PER EN 13888: 2009

SR. NO.	TEST CONDUCTED	UNIT	TEST METHOD	TEST RESULTS	SPECIFICATION AS PER EN 13888: 2009 FOR REACTION RESIN GROUT
1	Compressive strength - dry	N/mm ²	EN 12808-3	66.2	≥ 45 N/mm ²
2	Compressive strength - freeze thaw	N/mm ²	EN 12808-3	63.4	...
3	Flexural strength - dry	N/mm ²	EN 12808-3	32.6	≥ 30 N/mm ²
4	Flexural strength - freeze thaw	N/mm ²	EN 12808-3	30.2	
5	Water absorption after 240 min.	g	EN 12808-5	0.01	≤ 0.1 g
6	Shrinkage, 24 hrs.	mm/m	EN 12808-4	Nil	≤ 1.5 mm/m
7	Abrasion resistance	mm ³	EN 12808-2	194	≤ 250 mm ³
8	Chemical resistance 20% NaOH, 24 hrs.	...	EN 12808-1	Resistant
9	Chemical resistance 20% H ₂ SO ₄ , 24 hrs.	...	EN 12808-1	Resistant

TECHNICAL DETAILS AS PER ISO 13007-4: 2015

SR. NO.	TEST CONDUCTED	UNIT	TEST METHOD	TEST RESULTS	SPECIFICATION AS PER ISO 13007-3:2015 FOR REACTION RESIN GROUT
1	Compressive strength - dry	N/mm ²	Clause 4.1	65.2	≥ 45 N/mm ²
2	Compressive Strength - freeze thaw	N/mm ²	Clause 4.1	62.6	...
3	Flexural strength - dry	N/mm ²	Clause 4.1	32.4	≥ 30 N/mm ²
4	Flexural strength - freeze thaw	N/mm ²	Clause 4.1	30.1	
5	Water absorption after 240 min.	g	Clause 4.2	0.01	≤ 0.1 g
6	Shrinkage, 24 hrs.	mm/m	Clause 4.3	Nil	≤ 1.5 mm/m
7	Abrasion resistance	mm ³	Clause 4.4	194	≤ 250 mm ³
8	Chemical resistance 20% NaOH, 24 hrs.	...	Clause 4.6	Resistant
9	Chemical resistance 20% H ₂ SO ₄ , 24 hrs.	...	Clause 4.6	Resistant

TECHNICAL DETAILS AS PER ANSI 118.3 : 1999

SR. NO.	TEST CONDUCTED	UNIT	TEST METHOD	TEST RESULTS	SPECIFICATION AS PER ANSI 118.3:1999 FOR REACTION RESIN GROUT
1	Water cleanability	Minutes	ANSI 118.3-E5.1	80	80 minutes
2	Initial setting time	Hr. : Min.	ANSI 118.3-E5.2	2 : 30	Shall be more than 2 hours
3	Service strength time	Days	ANSI 118.3-E5.2	5	Shall not more than 7 days
4	Shrinkage @ 7 days	%	ANSI 118.3-E5.3	0.06	Shall not more than 0.25 %
5	Sag in joint	Visual	ANSI 118.3-E5.4	No Change	No change in shape of joint
6	Bond strength	N/mm ²	ANSI 118.3-E5.5	7.18	Shall more than 6.85 N/mm ²
7	Compressive strength	N/mm ²	ANSI 118.3-E5.6	79.8	Shall more than 23.9 N/mm ²
8	Tensile strength	N/mm ²	ANSI 118.3-E5.7	13.3	Shall more than 6.85 N/mm ²
9	Thermal shock resistance	N/mm ²	ANSI 118.3-E5.8	6.8	Shall more than 3.42 N/mm ²
10	Chemical resistance 20% NaOH, 24 hrs.	...	ANSI-118.3-E 5.9	Resistant
11	Chemical resistance 20% H ₂ SO ₄ , 24 hrs.	...	ANSI-118.3-E 5.9	Resistant

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AVAILABLE COLORS

Available in 36 vibrant colours.

COVERAGE

CONSUMPTION OF EPOXY BASED TILE GROUT IN (kg/m ²)										
TILE DIMENTION (mm)			MIX DENSITY OF TILE GROUT->1.6 Kg/litre							
L(mm)	B(mm)	T(mm)	JOINT SIZE - J(mm)							
			2mm	3mm	4mm	5mm	6mm	8mm	10mm	12mm
25	25	6	1.54	2.30	3.07	3.84	4.61	6.14	7.68	9.22
25	50	6	1.15	1.73	2.30	2.88	3.46	4.61	5.76	6.91
50	50	6	0.77	1.15	1.54	1.92	2.30	3.07	3.84	4.61
100	100	6	0.38	0.58	0.77	0.96	1.15	1.54	1.92	2.30
100	100	10	0.64	0.96	1.28	1.60	1.92	2.56	3.20	3.84
300	200	6	0.16	0.24	0.32	0.40	0.48	0.64	0.80	0.96
300	300	6	0.13	0.19	0.26	0.32	0.38	0.51	0.64	0.77
450	300	6	0.11	0.16	0.21	0.27	0.32	0.43	0.53	0.64
600	300	6	0.10	0.14	0.19	0.24	0.29	0.38	0.48	0.58
600	600	8	0.09	0.13	0.17	0.21	0.26	0.34	0.43	0.51
800	800	8	0.06	0.10	0.13	0.16	0.19	0.26	0.32	0.38
1000	1000	10	0.06	0.10	0.13	0.16	0.19	0.26	0.32	0.38
1200	600	10	0.08	0.12	0.16	0.20	0.24	0.32	0.40	0.48
1200	800	10	0.07	0.10	0.13	0.17	0.20	0.27	0.33	0.40
1200	1200	12	0.06	0.10	0.13	0.16	0.19	0.26	0.32	0.38
1600	800	12	0.07	0.11	0.14	0.18	0.22	0.29	0.36	0.43
1800	1200	12	0.05	0.08	0.11	0.13	0.16	0.21	0.27	0.32

Quantities shown are approximate and are given for estimating purposes only.

Actual job site coverage may vary from site to site.

Note: It is always a good practice when calculating coverage to allow for 10% additional material for waste and spillage. Always do the a site sample for shade confirmation and then go for larger areas.

PROPERTIES	RESULTS
CURING PROPERTIES	
Mixing ratio (resin : hardener)	100:40 by weight
Pot life	20-25 minutes at 25°C of 100g mix
Hardening time	12 to 15 hours at 25°C
Curing time	24 hours at 25°C
Operating temperature	>5°C

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ADDITIONAL INFORMATION

RESTRICTIONS ON USE

- This should not be used when temperature is below 5°C and falling.
- This should not be exposed to running water during application.
- Colour may fade when used in exterior.

CLEANING

Trubuild Stain Free Epoxy Grout should be removed from tools/ equipment with water immediately after use. Once set, material can only be removed mechanically.

MIXING RATIO

Resin: Hardener: Filler = 0.9: 0.35: 3.75 by weight

HANDLING PRECAUTIONS

- Use mask, nose cover and hand gloves during application.
- Epoxy resin may cause irritation when it will come into contact of the skin. Hence during application, avoid contact with skin and eyes.
- If it comes into contact with skin accidentally, then use a suitable resin removable cream and then wash the area with soap and water. If irritation continuous then seek medical help.
- In case of contact with eyes rinse it with clean water and seek immediate medical help.
- If swallowed accidentally then take immediate help of medical professional. Do not induce vomiting without advice of a medical doctor.

SHELF LIFE

12 months in its unopened sealed original packaging in a strictly dry and cool storage place.

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