

Series: TSEG1K001 | Month: December 2023
Supersedes all earlier TDS

UltraTech

TILEFIXO

STYLE Epoxy Grout 2K

UltraTech Tilefixo STYLE Epoxy Grout 2K is a two-component Epoxy Tile Grout, which is stain-free, crack-free, chemical-resistant, waterproof & UV Resistant. UltraTech Tilefixo STYLE Epoxy Grout is ideal for filling tile/stone joints in floor & walls of Ceramic tile, Vitrified tile, Glass mosaic tiles, Metal tiles, Granite/Marble, Agglomerates (Engineered Stones), Precast Terrazzo tiles in residential, commercial and institutional structures in internal & External areas.

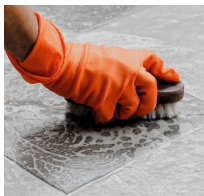
Areas of Application

Recommended for grouting of floor & Wall tile joints in internal and external areas like Bathrooms, Kitchen, Cafeterias Terraces, Balconies etc. in Residential, Commercial & Institutional structures for joint width between 2-15 mm,

Features and Benefits

- UV Resistant
- Food-grade epoxy grout
- Stain Repellent
- Chemical Resistant
- Water Resistant
- Fungal and Bacterial Resistant
- Easy to mix
- Uniform Colour

Method of Application



Surface Preparation

- Start epoxy grouting only after 24 hours of tile/stone fixing.
- Remove debris in joints and lightly sponge the tile surface to remove dust and dirt & then start using UltraTech Tilefixo STYLE Epoxy Grout 2K.
- Ensure tile joints are dry, clean, free of dust & tile adhesive.
- Acid cleaning of tiles is not recommended, wash the tile area properly with water in case acid cleaning is done on tiles then start tile grouting.
- Joints should be completely filled to the depth, there should be no voids.



Mixing

- Mix the contents of UltraTech Tilefixo STYLE Epoxy Grout 2K Part "A" (Colour Component) and Part "B" (Hardener) in a clean container as per recommended ratio.
- Use trowel or a slow speed drill mixer to mix Part A & Part B. mix thoroughly for 3-4 minutes to ensure homogenous consistency, free of lumps and uniform colour to achieve a stiff mix to work into the joints
- Mix only the required quantity (in recommended ratio) which can be consumed within the pot life period of 45 mins.



Application

- Wear gloves during mixing & application.
- After mix is ready start filling tile joints. Mix should be used within pot life of 45 mins. Ensure that the grout is not in contact with water during application.
- Fill the joints with hard rubber squeeze/ grout float, press the grout firmly into the joints ensuring there are no air voids.
- Remove excess material before initial cleaning with grout float. Do not leave excess grout on the face of tiles.



Cleaning

Initial Cleaning

- Clean the excess grout from tile joints & tiles after 20 minutes of application. Cleaning should be done before the product hardens.
- Use a rough textured sponge dampened with water to remove the grout residue.
- Use the damp sponge in a circular motion and keep it relative to the tile surface to achieve the flush joint & taking care not to drag grout from the joints.
- Clean off any light residue of tile grout left on the tile surface using an alkaline detergent/ tile cleaner without disturbing the joint finish.
- Tools and containers should be cleaned using clean water when the grout is still fresh.

Final Cleaning

- Final Cleaning: within 24 hours do a second cleaning with normal soap detergent to remove any haze from the tile.

Technical data as per relevant Standards

Parameters	Values
Component Ratio (Part A:B)	925:75
Mix Density	1620 kg/m ³
Food Grade	Yes
Pot life @27 degree Celsius	90 min
Joint-Width	2-15 mm
Air Curing	7 days
Regular foot traffic	24 hrs
Heavy foot traffic	72 hrs

• As per EN 13888

	Parameters	Standard Specification	Test Results
1	Compressive Strength - Dry	≥ 45 Mpa	69.3 Mpa
2	Compressive Strength - Freeze thaw	–	65.2 Mpa
3	Flexural Strength - Dry	≥ 30 Mpa	34.4 Mpa
4	Flexural Strength - Freeze thaw	–	32.2 4pa
5	Water Absorption after 240 min	≤ 0.1 g	0.02 g
6	Shrinkage @ 24 hrs (%)	≤ 1.5 mm/m	0.11 mm/m

• As per ANSI 118.3

	Parameters	Standard Specification	Test Results
1	Water Cleanability	Min. - 80 minutes	> 80
2	Initial Setting Time	Min. - 2 Hrs	3 Hr.50 min
3	Service Strength Time	Max.- 7 Days	6 Days
4	Shrinkage	Max. - 0.25 %	0.004 %
5	Sag in Vertical Joint	No Sag	No Sag
6	Bond Strength	Min. - 69.8 Kg/cm ² Or Min - 6.85 Mpa	8.25 Mpa
7	Compressive Strength	Min. - 244 Kg/cm ² Or Min - 23.9 Mpa	67.95 Mpa
8	Tensile Strength	Min. - 69.8 Kg/cm ² Or Min - 6.85 Mpa	16.79 Mpa
9	Thermal Shock resistance	Min. – 34.9 Kg/cm ² Or Min - 3.42Mpa	6.71 Mpa

•Chemical Resistance Chart: -

Chemical		Concentration %	Test Results				Intermittent Use
			24 Hours	7 Days	14 Days	28 Days	
Acetic Acid	2.5		●	●	●	●	●
	5		●	●	●	●	●
Hydrochloric Acid	37		●	●	●	●	●
Citric Acid	10		●	●	●	●	●
Lactic Acid	2.5		●	●	●	●	●
	5		●	●	●	●	●
	10		●	●	●	●	●
Nitric Acid	25		●	●	●	●	●
	50		●	●	●	●	●
Oleic Acid	-		●	●	●	●	●
Sulphuric Acid	1.5		●	●	●	●	●
	50		●	●	●	●	●
	96		●	●	●	●	●
Tannic Acid	10		●	●	●	●	●
Tartaric Acid	10		●	●	●	●	●
Oxalic Acid	10		●	●	●	●	●
Ammonia in solution	25		●	●	●	●	●
Caustic Soda	50		●	●	●	●	●
Sodium Hypochlorite Conc. Cl active	>10		●	●	●	●	●
Caustic Potash	50		●	●	●	●	●
Sodium Bisulphite	10		●	●	●	●	●
Iposulphite Sodium			●	●	●	●	●
Calcium Chloride			●	●	●	●	●
Sodium Chloride			●	●	●	●	●
Ferric Chloride			●	●	●	●	●
Sugar			●	●	●	●	●
Petrol, Fuels			●	●	●	●	●
Turpentine			●	●	●	●	●
Gas Oil			●	●	●	●	●
Olive Oil			●	●	●	●	●
Lube Oil			●	●	●	●	●
Acetone			●	●	●	●	●
Ethylene Glycol			●	●	●	●	●
Glycerine			●	●	●	●	●
Ethyl Alcohol			●	●	●	●	●
Solvent Petrol			●	●	●	●	●
Peroxide Water			●	●	●	●	●
●		●		●			
Excellent Resistance		Good Resistance		Poor Resistance			

• **Coverage Chart: -**

Consumption (Kg/m³) for different Tile Size Sand Joint Width: -

Tile Dimension(mm)			Coverage in Kg/m³								
Length	Width	Thickness	2	3	4	5	6	8	10	12	15
300	200	6	0.16	0.24	0.32	0.41	0.49	0.65	0.81	0.97	1.22
300	300	6	0.13	0.19	0.26	0.32	0.39	0.52	0.65	0.78	0.97
450	300	6	0.11	0.16	0.22	0.27	0.32	0.43	0.54	0.65	0.81
600	300	6	0.10	0.15	0.19	0.24	0.29	0.39	0.49	0.58	0.73
600	600	8	0.09	0.13	0.17	0.22	0.26	0.35	0.43	0.52	0.65
800	800	8	0.06	0.10	0.13	0.16	0.19	0.26	0.32	0.39	0.49
1000	1000	10	0.06	0.10	0.13	0.16	0.19	0.26	0.32	0.39	0.49
1200	600	10	0.08	0.12	0.16	0.20	0.24	0.32	0.41	0.49	0.61
1200	800	10	0.07	0.10	0.14	0.17	0.20	0.27	0.34	0.41	0.51
1200	1200	12	0.06	0.10	0.13	0.16	0.19	0.26	0.32	0.39	0.49
1600	800	12	0.07	0.11	0.15	0.18	0.22	0.29	0.36	0.44	0.55
1800	1200	12	0.05	0.08	0.11	0.14	0.16	0.22	0.27	0.32	0.41
25	25	6	1.56	2.33	3.11	3.89	4.67	6.22	7.78	9.33	11.66
25	50	6	1.17	1.75	2.33	2.92	3.50	4.67	5.83	7.00	8.75
50	50	6	0.78	1.17	1.56	1.94	2.33	3.11	3.89	4.67	5.83
100	100	6	0.39	0.58	0.78	0.97	1.17	1.56	1.94	2.33	2.92
100	100	10	0.65	0.97	1.30	1.62	1.94	2.59	3.24	3.89	4.86

Coverages mentioned are indicative only and may vary as per site conditions.

- Formula for Coverage Calculation:-

• C= $1.62 \times T \times W \times [(L+B)/(L \times B)]$

• C- Coverage (Kg/m³)

• L- Length of tile in mm

• B- Width of Tile in mm

• T- Thickness of Tile in mm

• W- Width of Tile Joint in mm

Precautions & Note: -

- Please use recommended proportion of both components. Any change in proportion would not give the correct product performance.
- Do not apply on wet/damp tile joints. Always apply it on completely dry tile joints.
- Do not over-mix the material. Over-mixing can reduce the pot life.
- Apply masking tapes along tile joints while working on unglazed floor tiles, porous tiles & natural stones, tiles with matt glaze or textured surfaces.
- While cleaning, change water frequently. Change cleaning cloth/ sponge when they are impregnated with grout.
- Protect from direct rainfall/ foot traffic for at least 24 hours
- Avoid using Acid to clean the joints
- Do not allow grout to harden on the face of the tile. Clean promptly.
- Ensure to check the compatibility of grout colour with the tile colour, also do a patch test to check if there is any colour absorption by the tile.
- Restrict usage in direct sunlight/extreme temperature.

Safety Precautions: -

- Wear gloves and mask during application.
- Prevent direct contact with skin and eyes. In case of contact, wash with clean water immediately. In case of prolonged irritation, medical advice should be sought

Shelf Life: -

UltraTech Tilefixo STYLE Epoxy Grout 2K to be used before 24 months from manufacturing date. Store in a cool and dry place.

Packaging: -

1 kg, 5 kg

DISCLAIMER
Information provided in this data sheet is a guideline for usage. Users are advised to undertake a trial for product suitability prior to its full scale usage.
There is no implied guarantee/warranty for the results and the company is not liable for any consequential damages.



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