

Stainfree epoxy tile grout system

Description Lapox EpogROUT is a three component water cleanable & stain free epoxy grout specially designed for use in floor & wall applications of ceramic tile, vitrified tile, mosaics, stone & structural glazed block. Tile grout available in range of attractive shades.

Applications Institutional kitchens and catering facilities
 Institutional facilities
 Swimming pools, Showers, Artificial water bodies and hot springs
 Laboratory
 Rest rooms
 Schools
 Heavy duty workshops, garages and services facilities
 Bottling plants and breweries
 Food production: meat, fish, vegetable and fruit processing, canning areas, dairies and bakeries

Advantages 100% Stain free and water cleanable
 Good workability with easy to apply
 Chemical Resistance to many acids, alkalis, corrosive, salt water, oils and fats.
 Temperature resistance
 Anti Bacterial & Anti fungal
 Crack-free setting without shrinking and very high adhesion to tiles and substrate
 Sag Resistance - Suitable for vertical applications
 Available in attractive color range

Typical specifications

Test	Unit	Reference	Value	
			Resin	Hardener
Description	-	Visual	Translucent viscous liquid	Clear yellowish brown liquid
Viscosity at 25°C ¹	m Pas	ASTM D2196	1,600 - 2,600	500 - 1,000
Colour	GS	ASTM D1544	Hazy white	Max 7
Density	gm/cc	ASTM D792	1.14 - 1.16	0.95 - 1.00

¹Viscosity by Brookfield viscometer

Mix specifications

Test	Unit	Reference	Value
Initial setting time	Hours	-	Min 3
Service setting time	Days	-	< 7
Lap shear strength after 24hrs ¹	kg/cm ²	ASTM D 1002	Min 120
Compressive strength after 24hrs ²	kg/cm ²	ASTM D 695	Min 500
Compressive strength after 24hrs ²	kg/cm ²	ASTM D 695	Min 800
Sag Resistance Test at 25°C	-	-	No sagging
Hardness ³	Shore-D	ASTM D 2240	Min 80
Water absorption after 24 hrs	%	ASTM D 670-63	Min 0.5

¹Lap shear strength on prepared aluminum strips at 25°C for neat resin and hardener system

²Compressive strength at 25°C for complete system

³Hardness checked after 24hrs for 40gm mix mass at 25°C

Working properties

Properties	Typical value
Workability at ambient condition	1 - 2 hours
Foot Traffic	24 hours
Heavy Traffic	72 hours

Processing

Surface preparation:

- Make sure tiles are firmly set, and adhesive or mortar is completely dry for 24 hours.
- Remove all spacers, pegs, ropes and string; clean joints by removing free loose dirt particles.
- Excessive humidity (above ~65%), low daylight and low temperature (less than 20°C) may retard the cure.

Mixing:

- Pour the contents of Resin & Hardener into a clean pail.
- Always mix complete units. Resin and Hardener are packaged to the exact quantity ratio for proper mixing. Partial mixing will result improper/no curing of grout.
- Mix thoroughly using a margin trowel or slow speed drill mixer until resin and hardener completely blended.
- Slowly add at least ¾ filler into above Resin/Hardener mixer and mixed until a lump free, uniform consistency is achieved. Add remainder filler slowly, if required, to achieve desired consistency.

How to Apply:

- Fill the tile joints with the Grout using a rubber flout or plastic spatula, ensuring that the joints are completely filled.
- Remove the excess grout material from joints and surface by moving the rubber flout diagonally to the grout lines.
- Remove as much excess material as possible before initial cleaning with grout float. Do not leave excess grout on the face of tiles.

How to clean:

- After 30-45 minutes of the tile grout application, scrub the surface of the tile & joint with clean water and scrubber pad in a circular motion.
- Using clean wet towel, remove residue from tile surface. Repeat as necessary rinsing the towel frequently in a pail of clean water until the oily feeling has gone.
- After 2-3 hours, joints will begin to harden. If rough or uneven found on joints, dress lightly with a sponge or gloved finger soaked in a soap solution to make smooth.
- Finally clean the tile surface with water and soap solution within 12 hours to remove epoxy haze.
- Care should be exercised not to use excess water or allow water to come into contact with the wet grout. Surplus material must be removed from the face of the tiles before it sets.

Packaging

1 Kg Pack

Resin : 0.18 Kg
Hardener : 0.07 Kg
Filler : 0.75 Kg

5 Kg Pack

Resin : 0.90 Kg
Hardener : 0.36Kg
Filler : 3.74Kg

Limitation

- Light colors may darken slightly from direct UV exposure. Consult with Technical Services for specific exterior recommendations.
- Maximum stain resistance is achieved 10 days after installation. Protect from exposure to acids and strong cleaners during this period.
- Not recommended for soft, polished marble or delicate glazed tiles.

Atul is not responsible for tile grout applicator not in accordance with our instructions and industry standard guidelines. Cracking due to structural movement, excessive deflection or other failure in the substrate is also not covered.

Coverage of Lapox Lacrete Tile Grout

Consumption : kg/mtr²

Tile Dimension (mm)			Consumption (kg/mtr ²) Tile Joint of Width								
Length	Width	Thickness	2 mm	3 mm	4 mm	5 mm	6 mm	7 mm	8 mm	10 mm	12 mm
100	100	3	0.22	0.32	0.43	0.54	0.65	0.76	0.86	1.08	1.30
150	150	4	0.19	0.29	0.38	0.48	0.58	0.67	0.77	0.96	1.15
200	150	5	0.21	0.32	0.42	0.53	0.63	0.74	0.84	1.05	1.26
200	300	6	0.18	0.27	0.36	0.45	0.54	0.63	0.72	0.90	1.08
300	300	6	0.14	0.22	0.29	0.36	0.43	0.50	0.58	0.72	0.86
300	300	10	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.20	1.44
400	400	6	0.11	0.16	0.22	0.27	0.32	0.38	0.43	0.54	0.65
450	450	7	0.11	0.17	0.22	0.28	0.34	0.39	0.45	0.56	0.67
450	300	7	0.14	0.21	0.28	0.35	0.42	0.49	0.56	0.70	0.84
500	500	8	0.12	0.17	0.23	0.29	0.35	0.40	0.46	0.58	0.69
600	600	8	0.10	0.14	0.19	0.24	0.29	0.34	0.38	0.48	0.58
600	900	11	0.11	0.17	0.22	0.28	0.33	0.39	0.44	0.55	0.66
900	900	12	0.10	0.14	0.19	0.24	0.29	0.34	0.38	0.48	0.58

Consumption : sq.ft/5kg unit

Tile Dimension (mm)			Consumption (Sq.ft/5kg unit) Tile Joint of Width								
Length	Width	Thickness	2 mm	3 mm	4 mm	5 mm	6 mm	7 mm	8 mm	10 mm	12 mm
100	100	3	249	166	125	100	83	71	62	50	42
150	150	4	280	187	140	112	93	80	70	56	47
200	150	5	256	171	128	103	85	73	64	51	43
200	300	6	299	199	149	120	100	85	75	60	50
300	300	6	374	249	187	149	125	107	93	75	62
300	300	10	224	149	112	90	75	64	56	45	37
400	400	6	498	332	249	199	166	142	125	100	83
450	450	7	481	320	240	192	160	137	120	96	80
450	300	7	384	256	192	154	128	110	96	77	64
500	500	8	467	311	234	187	156	133	117	93	78
600	600	8	561	374	280	224	187	160	140	112	93
600	900	11	489	326	245	196	163	140	122	98	82
900	900	12	561	374	280	224	187	160	140	112	93

Note : Calculated coverage indicated is approximate, based on "nominal" tile size and is provided for purposes of estimation only. Actual coverage will vary depending on job site conditions, actual tile size and installed grout joint size. Add 10-15% for waste, spillage and clean-up.

LAPOX[®] EPOGROUT

Technical Data Sheet | Polymers Business



Storage and handling

Lapox EpogROUT should be stored in a cool and dry place, preferably in a sealed container and should not be exposed to direct sunlight. This product has a shelf life of two year, if stored in its original container between 2°C and 40°C away from humidity and excessive heat.

Safety

Wear personal protective equipment (PPE). Avoid contact with the eyes and skin. In case of direct contact and irritation, it should be washed off immediately with soap and warm water. Avoid breathing vapours, mist or gas. Please refer to the Safety Data Sheet (SDS) of Lapox EpogROUT for detailed safety instructions.

Spills and disposal

In case of spills, sweep up and shovel the spilled material. Keep spilled material in suitable, closed containers for disposal. Soak up with an absorbent such as clay, sand or other suitable material. Flush area with water to remove trace residue. Do not allow the product to reach the sewage system. Waste must be disposed of in accordance with federal, state or local regulations, as applicable.

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Note

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