



MYK LATICRETE

Technical Data Sheet

SP-100 Stain-free Grout



Stain-free grout for interior & covered exterior floor & wall

Features / Benefits

- Stain-free
- Colour fast
- Easy to clean
- Chemical and Temperature resistant
- Non-cracking or powdering
- Complies with ANSI A 118.3, EN 13888, standards.
- Water and shock resistant.
- Food grade – Certified by CFTRI, Mysore

Substrates

- Ceramic tile
- Vitrified tile
- Glass Mosaic Tiles
- Granite
- Marble
- Metal tiles
- Agglomerates (Engineered Stones)
- Precast Terrazzo tiles

Application

Designed especially for interior and covered exterior floor and wall joints of all types of ceramic tile, vitreous, semi-vitreous tile, glass mosaic tiles, metal tiles, precast terrazzo, engineered stone floors and natural stones. Recommended for Institutional and commercial kitchens, Cafeterias, residential facilities, Rest rooms, Schools and wet areas like swimming pools, sauna, water bodies and wash rooms.

Compliance

ISO 13007 / EN

ANSI A118.3

Member of
Indian Green Building Council



TECHNICAL DATA

Applicable Standards:

ANSI A118.3; ISO 13007 – 3 (RG) / EN 13888

ANSI Data		
Property / Test Method	Requirement	Typical Values
Water cleanability: ANSI A118.3: Clause 5.1	>80 Minutes	90-120 Minutes
Initial Setting Time: ANSI A118.3: Clause 5.2	>120 Minutes	200 - 260 Minutes
Service Setting Time: ANSI A118.3: Clause 5.2	≤ 7 Days	48 Hours – 72 Hours
Shrinkage after 7 days: ANSI A118.3: Clause 5.3	< 0.25%	< 0.10%
Sag in Vertical Joints: ANSI A118.3: Clause 5.4	No change in shape of joint	Pass. No change in shape of joint
Bond strength to Quarry Tile: ANSI A118.3: Clause 5.5	>1000 psi (6.87 Mpa)	>1100 psi (7.86 Mpa)
Compressive Strength after 7 days: ANSI A118.3: Clause 5.6	>3500 psi (24.06 Mpa)	7500 – 8200 psi (51.56 – 56.37 Mpa)
Tensile Strength after 7 days: ANSI A118.3: Clause 5.7	>1000 psi (6.87 Mpa)	2300 – 2600 psi (15.81 – 17.87 Mpa)
Thermal Shock ANSI A118.3: Clause 5.8	>500 psi (3.43 Mpa)	1000 – 1100 psi (6.87 – 7.86 Mpa)

The grout mortar conforms to ANSI A 118.3

ISO / EN Data		
Property / Test Method	Requirement	Typical Values
Abrasion resistance: ISO 13007 – 4: Clause 4.4; EN 12808 - 2	≤ 250 mm ³	Pass
Flexural strength under standard conditions: ISO 13007 – 4: Clause 4.1.3; EN 12808 - 3	≥ 30 N / mm ²	38 - 40 N / mm ²
Compressive Strength under	≥ 45 N / mm ²	55 – 57 N / mm ²

standard conditions: ISO 13007 – 4: Clause 4.1.4; EN 12808 – 4		
Shrinkage: ISO 13007 – 4: Clause 4.3 : EN 12808 – 4	< 1.5mm / m	0.6 – 0.8 mm / m
Water Absorption after 240 Minutes: ISO 13007 – 4: Clause 4.2; EN 12808 – 5	≤0.1 g	0.015 – 0.040 g
Chemical Resistance	See Chemical resistance chart	

The grout mortar conforms to ISO 13007 – 4 (RG) / EN 13888.

The mix density of SP-100 grout is 1710 kg /m³.

Packaging:

SP-100 is a factory proportioned kit with Hardener (Part A), Resin (Part B), and colored filler powder (Part C).

Unit	Net weight
1/5 th unit	1.0 kg
1 full unit	5.0 kg
Double unit	10.0 kg

Colour:

Choose from range of colours available in Part C filler powder. Please refer the grout colour chart for choosing the colour required.

Coverage:

Please refer the coverage chart as it depends on the tile size, joint width and depth.

Working Properties at 70° F (21° C)

Working properties:

Pot life	45 minutes
Foot traffic	24 hours
Heavy traffic	72 hours

CHEMICAL RESISTANCE CHARTS: At 23° C

Acid Based Chemicals				
Chemical	Concentration	PE	IE	SE
Acetic Acid	2.5%	VG	VG	VG
	5%	G	VG	VG
• HCL	10%	VG	VG	VG
• H2SO4	20%	VG	VG	VG
	50%	P	G	G
• Formic Acid	2.5%	VG	VG	VG
	10%	P	P	P
Nitric Acid	10%	P	G	VG

Citric Acid	10%	VG	VG	VG
Tartaric Acid	50%	VG	VG	VG
Tannic Acid	50%	VG	VG	VG
Benzoic Acid	5%	VG	VG	VG
Oxalic Acid	10%	VG	VG	VG

PE: Prolonged Exposure; IE: Intermittent Exposure; SE: Splash Exposure; P: Poor; G: Good; VG: Very Good;

- Long exposure will cause colour change

Base and Salt Solutions				
Chemical	Concentration	PE	IE	SE
Sodium Hydroxide	50%	VG	VG	VG
Ammonia Solution	25%	VG	VG	VG
Baking Soda	20%	VG	VG	VG
• Hypochlorite Solution	4%	P	G	VG
• Potassium Permanganate	1%	VG	VG	VG
	10%	P	P	VG
Calcium Chloride	10%	VG	VG	VG
Hydrogen Peroxide	1%	VG	VG	VG
	10%	VG	VG	VG

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Household / Food Stuff Solutions				
Chemical	Concentration	PE	IE	SE
Coffee	NA	VG	VG	VG
Milk	NA	VG	VG	VG
Vinegar	NA	VG	VG	VG
Citrus Juice / Sauce	NA	P	G	VG
Butter	NA	VG	VG	VG
Beer	NA	VG	VG	VG
Sugar / Glucose	NA	VG	VG	VG
Vegetable Oil	NA	VG	VG	VG
Coke	NA	VG	VG	VG

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Solvents & Combustible Solutions				
Chemical	Concentration	PE	IE	SE
• Ethanol	NA	P	G	VG
Acetone	NA	P	G	G
Ethylene Glycol	NA	VG	VG	VG
MEK	NA	P	P	VG
Glycerol	NA	VG	VG	VG
Chloroform	NA	P	P	P

Carbon Tetra Chloride	NA	P	P	G
Methylene Chloride	NA	P	P	P
Toluene	NA	P	P	G
Xylene	NA	P	P	G
Butyl Acetate	NA	P	P	VG

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- Long exposure will cause colour change

INSTALLATION

Important site Checks: Notes to the specifiers:

- It is recommended to check the colour of the grout, if it is meeting the desired colour of the client
- It is recommended to do a small area with actual tile/stone at site and check for any colour ingress into the tile/stone. Many tiles / stones have high absorption which may lead to discoloration / colour marks.
- Plan to provide proper movement joints, peripheral joints as per EJ 171 to accommodate movements in tile/stone and use flexible grout / sealant to fill these movement joints.
- SP 100 is a solid epoxy grout and does not accommodate movements in tile/stone that can occur due to various reasons. Movements which occur in the tile/stone area due to non provision of movement joints will lead to cracks / breakage of grout joints / tile/ stone.
- Keep the working area covered and protected from Sun light while application of SP-100, stain free epoxy grout, is applied in open areas like swimming pools etc. Keep the cover for 7 days and till the filling of pools with water after the completion of grouting with SP-100, stain free epoxy grout.*

Surface Preparation:

Before starting to grout, remove debris in grout joints and lightly sponge the tile surface to remove dust and dirt. Do not clean tiles with acid cleaners. In case acid cleaners were used to clean the tiles, ensure to wash the area with plenty of water before commencing grouting.

Substrate temperature must be between 60°F (16°C) and 90°F (32°C).

Mixing

Empty entire contents of SP-100 Stain free Grout Part "A" and Part "B" container into a clean mixing pail. Mix with a margin trowel or a slow speed drill mixer until liquids are completely blended. Add at least ¾ of SP-100 Part "C" Filler Powder and mix to a uniform consistency. Add

the remaining filler powder and mix to achieve a stiff mix to work into the joints.

Immediately pour entire contents of bucket onto working area. Use a plastic sheet as a drop cloth. Use standard epoxy grouting techniques to work with SP-100 Grout into tile joints. SP-100 Grout can also be applied with a caulking gun. Be sure all grout joints are packed full. Remove as much excess material as possible before initial cleaning with grout float. Do not leave excess grout on the face of tiles.

Cleaning

Remove excess grout from the face of the tiles with the edge of the grout float. Hold the float at a 90° angle and pull it diagonally across the joints and tile to avoid pulling out the material.

Initial Cleaning: After 30-45 min of the application of the grout scrub the surface of the tile & joint with clean water and scrubber provided to remove any excess grout. Then take a clean thick white towel and drag across the tile to remove any residue.

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

* Contact MYK LATICRETE technical services for large format tile or stone installations on exterior surfaces.

MAINTENANCE

LATICRETE® and LATAPOXY® grouts require routine cleaning with neutral pH soap and water or MYK LATICRETE Clenza series suitable cleaners. All other LATICRETE® and LATAPOXY® materials require no maintenance but proper installation as per instruction. Performance and durability may depend on properly maintaining of Installed area.

WARRANTY

MYK LATICRETE India Pvt Ltd warrants that LATICRETE® SP

-100 Stain free grout is free from manufacturing defects and will not break down, deteriorate or disintegrate under normal usage for a period of two (2) years from manufacturing of the product subject to the terms and conditions stated in LATICRETE® Product Warranty.



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Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for two (2) years if stored at temperatures >32°F (0°C) and <110°F (43°C).

Limitations

- Light colors may darken slightly from direct UV exposure.
- Consult with Technical Services for specific exterior grouting recommendations.
- For industrial applications exposed to high concentrations of food and mineral acids and to high heat, use LATAPOXY®2000 Industrial Epoxy Grout.
 - 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.
 - Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproof membranes. When a waterproof membrane is required, use LATICRETE® Hydro ban / 9237 Waterproof Membrane.