



MYK LATICRETE

Technical Data Sheet

SP-100™ DUO Stain-free Grout



Stain-free UV Resistant epoxy grout for interior & exterior floor & wall applications

Features / Benefits

- Stain-free
- Colour fast
- Easy to clean
- UV Resistant
- Chemical and Temperature resistant
- Non-cracking or powdering
- Complies with ANSI A 118.3, EN 13888, standards
- Water and shock resistant
- Food grade

Application

Designed especially for interior and 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, Terraces, balconies and wet areas like swimming pools, sauna, water bodies and washrooms

Substrates

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

Compliance

**ISO 13007 / EN
13888**

Member of
Indian Green Building Council



**ANSI
A118.3**



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 - 110 Minutes
Initial Setting Time: ANSI A118.3: Clause 5.2	>120 Minutes	240 - 310 Minutes
Service Setting Time: ANSI A118.3: Clause 5.2	≤ 7 Days	2 – 3 Days
Shrinkage after 7 days: ANSI A118.3: Clause 5.3	< 0.25%	0.02 %
Sag in Vertical Joints: ANSI A118.3: Clause 5.4	No change in shape of joint	Pass
Bond strength to Quarry Tile: ANSI A118.3: Clause 5.5	>1000 psi (6.87 Mpa)	>1100 psi (7.56 Mpa)
Compressive Strength after 7 days: ANSI A118.3: Clause 5.6	>3500 psi (24.06 Mpa)	> 3916 psi (27.23 Mpa)
Tensile Strength after 7 days: ANSI A118.3: Clause 5.7)	>1000 psi (6.87 Mpa)	>1150 psi (7.92 Mpa)
Thermal Shock ANSI A118.3: Clause 5.8)	>500 psi (3.43 Mpa)	> 600 psi (4.12 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 mm³	42 -45 mm³
Flexural strength under standard conditions: ISO 13007 – 4: Clause 4.1.3; EN	≥ 30 N / mm²	> 34 N / mm²

12808 - 3		
Compressive Strength under standard conditions: ISO 13007 – 4: Clause 4.1.4; EN 12808 – 4	≥ 45 N / mm²	46 N / mm²
Shrinkage: ISO 13007 – 4: Clause 4.3; EN 12808 – 4	< 1.5mm / m	0.8 to 1.0 mm/m
Water Absorption after 240 Minutes: ISO 13007 – 4: Clause 4.2; EN 12808 – 5	≤0.1 g	0.007 g
Chemical Resistance	See Chemical resistance chart	

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

Packaging:

SP-100 DUO is a factory proportioned kit with Hardener (Part A) and Resin (Part B)

Unit	Net weight
1/5 th unit	1 kg
1 full unit	5 kg
2 full unit	10 kg

Colour:

Choose from range of colours available. 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	7 Days

CHEMICAL RESISTANCE CHARTS: At 25° 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

• Formic Acid	2%	VG	VG	VG
Nitric Acid	10%	P	G	VG
Citric Acid	10%	VG	VG	VG
Benzoic Acid	5%	VG	VG	VG
Oleic Acid	2%	VG	VG	VG

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
Sodium Hypochlorite Solution	4%	P	G	VG
Potassium Permanganate	10%	P	G	VG
Calcium Chloride	10%	VG	VG	VG
Hydrogen Peroxide	10%	VG	VG	VG

Household / Food Stuff Solutions				
Chemical	Concentration	PE	IE	SE
Coffee	NA	G	VG	VG
Milk	NA	VG	VG	VG
Vinegar	NA	VG	VG	VG
Ketchup / Sauce	NA	G	VG	VG
Red wine	NA	VG	VG	VG
Grease	NA	VG	VG	VG
Olive Oil	NA	VG	VG	VG
Coke	NA	VG	VG	VG

Solvents & Combustible Solutions				
Chemical	Concentration	PE	IE	SE
• Ethyl Alcohol	NA	P	G	VG
Acetone	NA	P	G	VG
Ethylene Glycol	NA	VG	VG	VG
MEK	NA	P	VG	VG
Tetra Hydro furan	NA	P	P	G
Chloroform	NA	P	P	P
Toluene	NA	P	P	G
Xylene	NA	P	G	VG
Dichloromethane	NA	P	P	P

PE: Prolonged Exposure; IE: Intermittent Exposure; SE: Splash Exposure; P: Poor; G: Good; VG: Very Good; NA: Not Applicable

- 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.
- **EXTERIOR AREAS ^:** Plan to provide proper movement joints, peripheral joints as per EJ 171 to accommodate movements in tile/stone and use flexible sealant to fill these movement joints particularly in the external areas where the movements are expected to be high in larger formats.
- Improper tile fixing, moisture ingress, or excessive structure movement can loosen tiles from grout due to the non-absorbent nature of the grout or tiles.
- Keep the working area covered and protected from Sun light while application of SP-100™ DUO, 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™ DUO, 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. Wait till the joints are completely dry. Substrate temperature must be between 60°F (16°C) and 90°F (32°C).

Mixing

Part B resin paste in the pail be mixed thoroughly and then pour the full contents of SP-100™ DUO Part A into a SP-100™ DUO Part B pail. Mix with a margin trowel or a slow speed drill mixer until they are completely blended.

Immediately pour entire mixed contents from the pail onto working area. Use a plastic sheet as a

drop cloth. Use standard epoxy grouting techniques to work with SP-100™ DUO Grout into tile joints. SP-100™ DUO Grout can also be applied with a caulking gun. Be sure all grout joints are packed full of SP100™ DUO. 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, rub the surface of the tile & joint with clean water and sponge provided in the kit, 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.

Application:

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for two (2) years if stored at temperatures >50°F (10°C) and <95°F (35°C) under shed, away from direct sunlight.

Limitations

- Light colors may darken slightly due to external pollutants.

Consult 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.

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.

Customer Care

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