

Milano Epoxy Grout / Stain-free Grout

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 washrooms.



UNIT: Bucket 3 part

Part A Resin

Part B Hardener

Part C Filler Powder

SIZE: Total 5kg

COLOR: Available in 46 Colors

Features

- Stain-free
- Color fast
- Easy to clean
- Chemical and Temperature resistant
- Non-cracking or powdering
- Anti-Bacterial and anti-fungal
- Water and shock resistant.

Substrates

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



Note: Coverage is depend on surface level of floor and wall it may be more and less.

Tile Size x Thickness (mm)	JOIN WIDTH						
	2 mm	3 mm	4 mm	6 mm	8 mm	10 mm	12 mm
100x100x3	52	35	26	18	13	11	9
150x150x4	59	39	29	17	15	12	10
200x150x4	53	36	27	18	13	11	9
150x300x6	52	35	26	20	16	11	9
300x300x6	78	52	39	26	20	16	13
450x300x7	81	54	40	27	20	16	13
600x450x8	101	67	50	34	25	20	17
600x600x8	118	78	59	39	29	23	19
600x900x11	103	68	51	34	25	20	17
900x900x12	118	78	59	39	29	23	19

ISO 13007		
PROPERTY / TEST METHOD	REQUIRMENT	TYPICAL VALUES
Abrasion resistance : ISO 13007-4, Clause 4.4;	$\leq 250 \text{ mm}^3$	Pass
Flexural strength under standard conditions : ISO 13007-4, Clause 4.1.3;	$\geq 30 \text{ N/mm}^2$	38 – 40 N/mm ²
Compressive strength under standard conditions : ISO 13007-4, Clause 4.1.4;	$\geq 45 \text{ N/mm}^2$	55 – 57 N/mm ²
Shrinkage: ISO 13007-4, Clause 4.3	$< 1.5 \text{ mm/m}$	0.6 – 0.8 mm/m
Water absorption after 240 minutes : ISO 13007-4, Clause 4.2	$\leq 0.1 \text{ g}$	0.015 – 0.040 g

WORKING PROPERTIES	
POT LIFE	45 MINUTES
FOOT TRAFFIC	24 HOURS
HEAVY TRAFFIC	72 HOURS

Important Site Checks – Notes to Specifiers (Milano Adhesive)

To ensure optimal performance and customer satisfaction, please consider the following recommendations while working with Milano Grouts and Adhesives:

Grout Colour Verification:

Always confirm the grout colour with the client prior to application. Test a small quantity to ensure it meets the desired aesthetic outcome.

Stain/Discoloration Test:

Before full-scale application, apply Milano grout on a small section of the actual tile or stone at the site. This helps identify any potential colour ingress or staining—especially for high-absorption tiles/stones that may cause discoloration.

Movement Joint Planning:

Provide proper movement and peripheral joints as per EJ 171 guidelines. Use flexible Milano grout or sealant to accommodate expansion, contraction, and other structural movements.

Note on Epoxy Grout (Milano)

Milano is a rigid epoxy grout. It does not accommodate movement within tile or stone installations. Lack of movement joints may lead to cracking or damage to both the grout and tile/stone surfaces.

Protective Measures During Application:

Always cover and shield the working area from direct sunlight and extreme weather during application and initial curing for best results.

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 Milano 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 $\frac{3}{4}$ of 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 Milano into tile joints. Grout can also be applied with a caulking gun. Be sure all grout joints are packed full with Milano Epoxy.

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

MILANO ADHESIVE

MATERIAL SAFETY DATA SHEET

MILANO EPOXY TILE GROUT – PART A (HARDENER)

1. PRODUCT IDENTIFICATION

- *Trade Name:* MILANO Epoxy Tile Grout – Part A (Hardener)
- *Chemical Family:* Polyamine-Based Hardener
- *Manufacturer:* Milano Adhesive

2. HAZARDOUS INGREDIENTS

Chemical Name	CAS No.	Percent	ACGIH TLV	OSHA PEL
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Remarks |

TEPA (Tetraethylene Pentamine)	112-57-2	<14%	N/A	N/A	
AEP (Aminoethylpiperazine)	140-31-8	<5%	N/A	N/A	
TOFA (Tall Oil Fatty Acids)	68953-36-6	<78%	N/A	N/A	
Reaction Product with TEPA	—	0–3%	N/A	N/A	

3. PHYSICAL PROPERTIES

- Vapor Density: N/A
- Specific Gravity: 0.9–1.0 @ 25°C
- Solubility in Water: Slightly soluble
- Appearance: Light amber
- Odor: Amine odor
- VOC: 0.01 lb/gal

MILANO EPOXY TILE GROUT – PART B (RESIN BASE)

1. PRODUCT IDENTIFICATION*

- *Trade Name:* MILANO Epoxy Tile Grout – Part B (Resin)
- *Chemical Family:* Epoxy Resin
- *Manufacturer:* Milano Adhesive

2. HAZARDOUS INGREDIENTS*

Chemical Name	CAS No.	Percent	ACGIH TLV	OSHA PEL
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Remarks |

Liquid Epoxy Resin	25068-38-6	60–80%	N/A	N/A	
Reactive Diluent	25068-38-6	0–20%	N/A	N/A	
Polymer of Bisphenol A	054208-638	0–20%	N/A	N/A	
Hydrogenated Castrol Oil	80017-83	0–5%	N/A	N/A	

3. PHYSICAL PROPERTIES

- Vapor Density: >1
- Specific Gravity: 1.12 @ 20°C
- Solubility in Water: None
- Appearance: Light, slightly viscous
- Odor: Slight resinous odor
- VOC: 0.04 lb/gal

MILANO EPOXY TILE GROUT – PART C (POWDER)

1. PRODUCT IDENTIFICATION

- *Trade Name:* MILANO Epoxy Tile Grout – Part C (Powder)
- *Chemical Family:* Inorganic minerals
- *Manufacturer:* Milano Adhesive

2. HAZARDOUS INGREDIENTS*

Chemical Name	CAS No.	Percent	ACGIH TLV	OSHA PEL	Remarks
Silica Sand	14808-60-7	80–90%	50 µg/m3	10 mg/m3	*
Aluminum Oxide	1344-28-1	1–4%	10 mg/m3	15 mg/m3	
Titanium Dioxide	13463-67-1	0–12%	10 mg/m3	15 mg/m3	
Copper Phthalocyanine	147-14-8	0.05–A%	N/A	N/A	+
- * IARC: Silica is carcinogenic to humans (Volume 42, 1987)					
- + Contains trace pigments (e.g., Diamond Blue, Blue Quartz)					

3. PHYSICAL PROPERTIES

- Vapor Density: N/A
- Specific Gravity: 2–3 g/cc
- Solubility in Water: N/A
- Appearance: Odorless, free-flowing colored powder
- VOC: 0.04 lb/gal -
- Evaporation Rate: N/A