

MORCEMCOLOR® EPOXY

Epoxy two-component tile grout for joints from 1 to 15 mm

ISO 13007 – 3: 2010 • RG • EN 13888 : 2022

DESCRIPTION

Stainless, chemical resistant, hard wearing and impervious epoxy-based tile grout which has a high degree of resistance to abrasion, impact and shocks. It is designed for grouting gaps between glazed, ceramic, porcelain, vitrified and fully vitrified tiles, natural stones and glass mosaics.

ADVANTAGES AND USES

- Stainless - Will not be stained by most foods, beverages, and cleaning agents.
- Easy maintenance. Smooth texture, easier to clean.
- Provides excellent chemical resistance to many acids, alkalis, and corrosives.
- Provides hygienic, hard wearing and abrasion resistant surface.
- Water-resitant property.
- Durable. Will not peel, crack or powder.
- Excellent mechanical property and highly resistant to heavy traffic.
- Easy to use.
- No noxious odor, nonflammable, water cleanable.
- Stable and uniform coloring for all types of tiles.

SUITABLE SUBSTRATES

- All types of ceramic tile, glazed tiles, porcelain tiles, vitrified tiles, natural stones*, large format tiles, glass mosaic tiles, composites & engineered stone.
- Floor and walls of internal and external area*,
- Dry, wet area, and water submerged area.
- Food, pharma and hygiene required areas.
- Area containing aggressive chemicals*,
- Heavy traffic and movement areas, domestic applications, commercial applications, wider tile joints.
- The adhesive or mortar remains between joints must be eliminated.

*Note: 1. For highly absorbent natural stones/ marbles which may form a wet or colored patch when tile gout is applied, do sample test to check for possible staining.

APPLICATION PROCEDURE

- Adequately shake the bottle of hardener before use to ensure uniform consistency.
- Mix the resin in bucket gently using a spatula.
- Slowly add the hardener into the resin while mixing at a low speed (150–200 rpm) using a hand drill mixer.
- Scrape the sides of the bucket with a spatula during mixing to ensure complete and homogeneous blending.
- Avoid entraining air by maintaining low mixing speed and do not over-mix.
- Allow the mixture to rest (slake) for 1–2 minutes, then remix briefly.
- The grout is ready to use and should be applied within 45–60 minutes of mixing at a temperature of 25–30°C.
- Pot life will reduce at elevated temperatures, so plan accordingly.
- Ensure the correct quantity of hardener is mixed with the resin—each pack contains the exact amount required.

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- Always mix the full quantity of resin and hardener provided in the pack; part mixing is not allowed or recommended.
- Use a hard rubber grout float to press the grout firmly into the joints.
- Hold the float at a 90° angle and move it diagonally at 45° to the joints to avoid pulling grout out.
- Work in small sections to maintain control and efficiency.
- For application in external areas, ensure substrate temperature is not above 40°C. At higher temperatures, the pot life of grout is reduced, causing application errors.
- Avoid grouting at elevated temperatures.
- Remove excess grout from tile surfaces using the edge of the float in diagonal strokes.
- Ensure joints are filled and grout is not just sitting on the surface.
- For optimal performance, grout should be filled to the full depth of the tile. If full-depth application is not feasible, a minimum of 75% of the tile thickness is recommended.

CLEANING AND FINISHING

- Begin cleaning within 30–45 minutes of application, before the grout dries.
- Sprinkle a small amount of clean water on the surface.
- Use a damp sponge in circular motions (both clockwise and counterclockwise) to remove grout residue.
- Avoid pulling grout out of joints during cleaning.
- Clean tools and containers with clean water while grout is still fresh.

RECOMMENDATIONS

- For highly absorbent natural stones/ marbles which may form a wet or colored patch when tile grout is applied, do sample test to check for possible staining.
- In case of resin absorption, the dark stains may form on the sides and on the surface of the slabs and they can’t be removed. This problem is usual for marbles/ stone of light colors.
- Consult technical department for recommendations on exterior applications. Light colors may darken slightly & turn yellowish due to direct UV exposure.
- Change frequently the wash water.
- Change frequently the felt and the sponge if they are impregnated with product.
- Do not tread on the newly applied surface to avoid staining the pavement with resin residues.
- Do not cover with fabrics or other materials recently applied to prevent the condensation formation that would result from the superficial carbonation product altering its uniformity color. Wait about 24-48 hours depending on the temperature before protecting the surface.
- Do not mix the product with water or solvents.
- With ceramic tiles pressed by compaction and with a similar surface of wood it can be difficult to remove the spots. In this case , it is recommended to do a previously test or to consult to the technical department.
- Do not use the product for applications not listed in this technical data sheet.

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CONSUMPTION ACCORDING TO DIMENSIONS (KG/M²)

CONSUMPTION TABLE DEPENDENT ON THE SIZE OF THE TILES AND WIDTH OF THE JOINTS (Kg/m²

Tile Dimension (mm)			Joint/ grouting Width (mm)										
Length	Width	Thickness	2	3	4	5	6	8	10	12	13	14	15
25	25	6	1.54	2.30	3.07	3.84	4.61	6.14	7.68	9.22	9.98	10.75	11.52
25	50	6	1.15	1.73	2.30	2.88	3.46	4.61	5.76	6.91	7.49	8.06	8.64
50	50	6	0.77	1.15	1.54	1.92	2.30	3.07	3.84	4.61	4.99	5.38	5.76
100	100	6	0.38	0.58	0.77	0.96	1.15	1.54	1.92	2.30	2.50	2.69	2.88
100	100	10	0.64	0.96	1.28	1.60	1.92	2.56	3.20	3.84	4.16	4.48	4.80
300	200	6	0.16	0.24	0.32	0.40	0.48	0.64	0.80	0.96	1.04	1.12	1.20
300	300	6	0.13	0.19	0.26	0.32	0.38	0.51	0.64	0.77	0.83	0.90	0.96
450	300	6	0.11	0.16	0.21	0.27	0.32	0.43	0.53	0.64	0.69	0.75	0.80
600	300	6	0.10	0.14	0.19	0.24	0.29	0.38	0.48	0.58	0.62	0.67	0.72
600	600	8	0.09	0.13	0.17	0.21	0.26	0.34	0.43	0.51	0.55	0.60	0.64
800	800	8	0.06	0.10	0.13	0.16	0.19	0.26	0.32	0.38	0.42	0.45	0.48
1000	1000	10	0.06	0.10	0.13	0.16	0.19	0.26	0.32	0.38	0.42	0.45	0.48
1200	600	10	0.08	0.12	0.16	0.20	0.24	0.32	0.40	0.48	0.52	0.56	0.60
1200	800	10	0.07	0.10	0.13	0.17	0.20	0.27	0.33	0.40	0.43	0.47	0.50
1200	1200	12	0.06	0.10	0.13	0.16	0.19	0.26	0.32	0.38	0.42	0.45	0.48
1600	800	12	0.07	0.11	0.14	0.18	0.22	0.29	0.36	0.43	0.47	0.50	0.54
1800	1200	12	0.05	0.08	0.11	0.13	0.16	0.21	0.27	0.32	0.35	0.37	0.40

*The coverage mentioned in table is indicative only and can vary as per the tile size, thickness, joint width wastage during application.

FORMULA FOR THE COVERAGE CALCULATION:

C = 1.65 x H x T x [(L + W) / (L x W)]

C = Tile grout coverage (Kg/m²)

H = thickness of tile (mm)

L = length of tile (mm)

T = width of joint (mm)

W = width of tile (mm)

TECHNICAL DATA

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(Statistical results in standard conditions)

Testing Properties	Test Results
Component Appearance	Base (Part A) – thick colored paste Hardener (Part B) – Yellow Viscous liquid
Mixing Ratio	100: 6.7
Mixed Material Consistency	Smooth creamy paste
Mixed Density gm/cc	1.65 ±0.05
Pot life @ 25°C	60 minutes
Joint Width	1 – 15 mm
Sag Resistant	No-sag
Application Temperature	From +15°C to +35°C
Temperature of Use	From +10°C to + 80 °C
Light Foot Traffic	24 hours at T @ 25°C
Regular Traffic	7 days at T @ 25°C

Abrasion resistance (EN 13888-2)	≤ 250 mm^3
Compressive Strength (EN 13888-2)	≥ 45 N/ mm^2
Flexural Strength (EN 13888-2)	≥ 30 N/ mm^2
Water absorption after 240 min (EN 13888-2)	≤ 0.1 g
Shrinkage (EN 13888-2)	≤ 1.5 mm/m
Total VOC Content (EPA 24 method)	< 8 gm/ kg
Initial shear adhesion strength (EN12004)	≥ 2 N/mm^2
Shear adhesion strength after water Immersion (EN12004)	≥ 2 N/mm^2
Shelf life	24 months in original packaging in dry place
Packaging	5kg (4.670 kg of Part A & 330 g of Part B)

Appearance	Component A: colored dense dough	Component B: dense liquid
Colors available	Jet Black	

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Coffee Brown
Snow white
Ivory
Steel Grey
Pastel Grey
Slate grey

LEGAL DISCLAIMER

The information and instructions in this datasheet are based on our current tests and technical knowledge. They are intended as general guidance and do not constitute a binding commitment by PIDILITEPUMA MEA CHEMICALS LLC. It is the sole responsibility of the user to verify, prior to use, that the product is suitable for the intended application and to ensure that it is applied correctly and in accordance with applicable regulations and good industry practice.

PIDILITEPUMA MEA CHEMICALS LLC cannot control how its products are applied on site throughout the entire project and therefore cannot accept responsibility for their application by contractors or other parties involved in the execution of the work. Support visits to the jobsite by our technical staff do not change that. Our responsibility is limited exclusively to defects that can be directly attributed to the supplied products, whether used individually or as part of a system, caused by manufacturing defects.

It is the responsibility of the project designer, site manager, contractor, or other relevant professionals to ensure that the selected products are appropriate for the specific project, taking into account their properties, the substrate, site conditions, and any existing issues.

In the event of a claim, the original packaging must be provided to ensure proper product traceability.

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