



Mapegrip D1



Hi grab ready-to-use paste adhesive for ceramic tiles

CLASSIFICATION IN COMPLIANCE WITH BS EN 12004

Mapegrip D1 is a normal (1) dispersion (D) adhesive, slip resistant (T) with extended open time (E) of class D1TE.

WHERE TO USE

Bonding of all types of ceramic and mosaic tiles on interior walls.

Some application examples

Installation of ceramic and mosaic tiles over:

- Gypsum plaster and gypsum block walls.
- Gypsum backerboard.
- Cement-based renders and cured reinforced concrete walls.
- Tile backer boards.

TECHNICAL CHARACTERISTICS

Mapegrip D1 is an adhesive in water dispersion based on synthetic resins, selectively graded minerals and various additives.

Mapegrip D1 is a ready-to-use creamy paste that is easily trowelled with good high initial

grab and thixotropic properties for installing wall tiles without slippage.

When set, **Mapegrip D1** has high bond strength and is sufficiently deformable for moderate vibration and deformation of building materials.

RECOMMENDATIONS

- Use only for internal application.
- Dispersion adhesives are not suitable for applications in continuous immersion in water (swimming pools, fountains, etc.).
- Either the tile or substrate must be absorbent.
- Contact Mapei Technical Department for recommendations for fixing to other substrate materials.
- Do not use **Mapegrip D1** to install natural stone, especially light coloured calcareous stone (e.g. Carrara marble).
- Do not use **Mapegrip D1** on metal substrates.

APPLICATION PROCEDURE

Preparing the substrate

Mapegrip D1 can be applied on approved

substrates which are sound and stable and free of oil, grease, wax, cracks and loose materials.

Applying the adhesive

Mapegrip D1 should be applied to the substrate with a notched trowel. The notch size must allow the adhesive to transfer to at least 65% of the tile back:

- for mosaic tiles up to 5x5 cm, use MAPEI no. 4 square-notched trowel;
- for normal size ceramic tiles, use MAPEI no. 5 notched trowel.

The open time of **Mapegrip D1** is approx. 20 minutes in normal temperatures and humidity. The tiles must be set within that open time and the adhesive must be spread accordingly, i.e. 1 to 2 m² at a time.

If a surface skin forms, the adhesive must be reapplied.

Do not use at temperatures below +5°C.

Installing the tiles

Press firmly using a twist and slide motion when positioning the tiles to ensure transfer of the adhesive. Any adjustment of the tiles must be done within 45-60 minutes.

Grouting

At normal temperatures the joints can be grouted 12 hours after setting the tiles. Large format or non absorbent tiles will take longer.

The joints can be grouted with **Keracolor Fine Grain** or **Large Grain**, depending on the joint width, or with **Ultracolor** (see "The Coloured Grouts" colour chart).

If good resistance to chemical agents is required, use **Kerapoxy**, a two-component anti-resisting epoxy grout.

For sealing flexible expansion joints, use **Mapesil AC** single-component silicone sealant.

In all of the above cases the width of the joints must be planned according to the type of grout and deformability of the substrate.

Cleaning

Mapegrip D1 can be cleaned from tile surfaces with a damp sponge while the

adhesive is still wet. Tools and hands can be easily cleaned with water while the adhesive is still wet. When the adhesive has hardened it can be removed with mineral spirits or proprietary hand cleaner.

CONSUMPTION

Bonding of ceramic tiles

Mosaic tiles	1.5 kg/m ² (n. 4 trowel)
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Tiles 15x15 over normal renders	2.5 kg/m ² (n. 5 trowel)
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PACKAGING

Mapegrip D1 is available in 2.5, 7.5 and 15 kg buckets.

STORAGE

12 months in original sealed packaging.

SAFETY INSTRUCTIONS FOR THE PREPARATION AND APPLICATION

Mapegrip D1 is not considered as hazardous according to ruling norms on the classification of these mixtures. It is however recommended to take the usual necessary precautions for handling chemical products. The Safety Data Sheet is available upon request for professional users.

FOR PROFESSIONALS.

WARNING

While the indications and guidelines contained in this data sheet correspond to the company's knowledge and wide experience, they must be considered, under all circumstances, merely as an indication and subject to confirmation only after long-term, practical applications. Therefore, anybody who undertakes to use this product, must ensure beforehand that it is suitable for the intended application and, in all cases, the user is to be held responsible for any consequences deriving from its use.

**All relevant references
of the product are available
upon request**

TECHNICAL DATA (typical values)

In compliance with:

– European EN 12004 as D1TE

PRODUCT IDENTITY

Consistence:	thick paste
Colour:	light beige
Density (g/cm³):	1.7
pH:	8.9
Dry solid content (%):	73 ± 1
Shelf life:	12 months in original sealed packaging
Hazard classification according to EC 99/45:	none. Before using refer to the "Safety instructions for the preparation and application" paragraph and the information on the packing and Safety Data Sheet
Brookfield viscosity (mPa·s):	1000 ± 50
Customs class:	3506 91 00

COMPOSITION AND PROPERTIES OF THE MIXTURE at +23°C and 50% R.H.

Application temperature range:	from +5°C to +35°C
Open time:	approx. 20 minutes
Adjustability time:	approx. 45-50 minutes
Grouting:	after 12 hours
Ready for use:	approx. 7 days depending on the absorption of the substrate and temperature

FINAL PERFORMANCES

Shear adhesion strength according to EN 1324 (N/mm²): – initial shear adhesion strength: – shear adhesion strength after ageing: exceeds minimum requirements of BS EN 12004 Type D1TE	2.7±0.2 2.0±0.3
Resistance to moisture:	good
Resistance to ageing:	excellent
Resistance to solvents and oils:	fair
Resistance to acids and alkalis:	fair
Flexibility:	limited

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