

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.

Conformity of **Mapegrip D1** is declared in **ITT** certificate no. **604015784** issued by Ceram UK.

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:

TECHNICAL DATA (typical values)	
In compliance with:	– European EN 12004 as D1TE
PRODUCT IDENTITY	
Consistence:	thick paste
Colour:	light beige
Density (g/cm ³):	1.60
pH:	8.9
Dry solid content (%):	72 ± 1
Brookfield viscosity (mPa·s):	1000 ± 50
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:	up to 30 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/mm ²): – initial shear adhesion strength: – shear adhesion strength after ageing: exceeds minimum requirements of BS EN 12004 Type D1TE	> 1 > 1
Resistance to moisture:	good
Resistance to ageing:	excellent
Resistance to solvents and oils:	fair
Resistance to acids and alkalis:	fair
Flexibility:	limited

- 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 up to 30 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 (n. 4 trowel) 1.5 kg/m²

Tiles 15x15 over normal renders (n. 5 trowel) 2.5 kg/m²

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 dangerous

according to the current regulation regarding the classification of mixtures. We recommend to wear protective gloves and goggles and to take the usual precautions for handling chemical products.

For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the **Technical Data Sheet**, available from our website www.mapei.com

**All relevant references
for the product are available
upon request and from
www.mapei.com**



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