

MAPEGrip D2

Ready-for-use water resistant paste adhesive for ceramic tiles



CLASSIFICATION IN COMPLIANCE WITH BS UKCA AND CE EN 12004

MapeGrip D2 is a water resistant improved (2) dispersion (D) adhesive, reduced slip (T) of class D2T.

WHERE TO USE

- Indoor bonding of ceramic tiles and ceramic mosaics of every type on walls and also on slightly deformable substrates.
- Spot-bonding insulating materials such as expanded polystyrene and polyurethane, rock and glass wool, wood-cement panels, foamed-concrete elements, soundproofing panels, etc.

Some application examples

- Absorbent tiles on cast concrete walls.
- Tiles on gypsum-plasters, sprayed gypsum and prefabricated panels.
- Tiles on gypsum-board walls.
- Absorbent tiles on painted walls.
- Absorbent tiles on old tiles.
- Large size tiles (up to 300 x 300 mm) on walls.
- Installation of insulating panels on plaster.
- Installation of expanded polystyrene ceilings.

RECOMMENDATIONS

- Use only for internal application.
- Dispersion adhesives are not suitable for applications in continuous immersion in water (swimming pools, fountains, etc.).
- Do not use on metal surfaces and to lay non absorbent tiles onto non-absorbent substrates.
- Do not use for the installation of natural stones, especially light coloured calcareous stone (e.g. Carrara marble).
- In case of substrates different from those specified, always contact MAPEI Technical Department for recommendations.

TECHNICAL CHARACTERISTICS

MapeGrip D2 is a water-dispersion adhesive based on acrylic resins, fine-graded mineral fillers and additives.

MapeGrip D2 is ready-to-use: it is a viscous paste but easily trowellable on vertical surfaces. Once fixed, the tiles adhere immediately, thanks to the excellent initial grab.

MapeGrip D2 sets by means of the evaporation of the water it contains, until it forms an extremely strong bond that resists all the normal vibrations to which building materials are subject.

MapeGrip D2 is water resistant, for application on walls in showers and bathrooms.

APPLICATION PROCEDURE

Preparation of the substrate

Substrates must be consistent, free of oil, grease, wax, crazing, loose particles, laitance and also free from residual or permanent moisture.

Cementitious substrates must be dry (as an indication allow 1 week of drying time for each centimetre of thickness). If this is not observed, **MapeGrip D2** will not have a correct setting time. **MapeGrip D2** can be used on gypsum supports and similar materials without priming as long as the surface is dry and solid.

MapeGrip D2 is also ideal for bonding absorbent ceramic tiles on painted or enamelled walls and walls painted with water or oil paint, as long as the paint is firmly anchored to the surface.

Application to walls whitewashed with lime is not advisable.

Application of the product

Apply **MapeGrip D2** on the substrate with a notched trowel.

To choose the right trowel, follow the general rule of selecting one that gives a coverage to at least 65% of the back of the tile in dry service areas and 100% in wet service areas. Maximum bed depth 3 mm. for mosaics up to 5x5 cm, square-notched mosaic trowel is recommended (consumption about 1.5 kg/m²); for normal ceramic wall tiles, the 6mm square notched trowel is recommended (consumption about 2.5 kg/m²);

The open time of **MapeGrip D2** in normal temperature and humidity conditions, is approximately 20-35 minutes. The tiles must be laid within this time and particular attention must be paid as regards to the amount of adhesive used (1-2 m² per coat).

Should the adhesive form a skin, the surface must be re-trowelled.

Do not work at temperatures below +5°C.

Installing the tiles

Press firmly using a twist and slide motion when positioning tiles to ensure transfer of the adhesive. Any adjustment of the tiles must be done within 40 minutes depending on temperature.

Bonding insulating materials

Insulating panels, decorative ceiling tiles etc, can all be applied by either spot-bonding or full-bonding.

Apply enough **MapeGrip D2** with a notched trowel, an ordinary trowel or other suitable tool to ensure good bonding. The various materials have to be applied under a firm pressure to ensure good contact with **MapeGrip D2**.

GROUTING

Joints can be grouted after a minimum of 12 hours when applied to a porous surface. When installing larger format tiles (up to 300 x 300 mm) or bonding to non-absorbent surfaces this time will be extended.

Joints between tiles to be filled with a suitable MAPEI cement or epoxy based grout.

Movement joints must be sealed with MAPEI **Mapesil AC**.

READY FOR USE

Surfaces are ready for use after 7-14 days, depending on the absorption of the substrate and tiles.

CLEANING

While it is still fresh, **MapeGrip D2** can be cleaned off the tiles with a damp sponge.

Tools, hands and materials coated with **MapeGrip D2** can be cleaned easily with water as long as the adhesive is fresh.

CONSUMPTION

Bonding ceramic mosaics

(mosaic trowel): 1.5 kg/m²

15x15 cm tiles on flat surfaces

(6 mm notched trowel): 2.5 kg/m²

Bonding insulating materials

Spot-bonding foam materials: 0.5-0.8 kg/m²

Bonding foamed concrete elements: 1.5 kg/m²

Full bonding on rough surfaces: 2.5 kg/m²

PACKAGING

MapeGrip D2 is supplied in 2.5, 7.5 and 15 kg plastic buckets.

STORAGE

MapeGrip D2 can be stored 12 months in the original packaging.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website www.mapei.co.uk.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA

TECHNICAL DATA (typical values) In compliance with: – European EN 12004 as D2T – UKCA 12004	
PRODUCT IDENTITY	
Consistency:	white or grey powder
Colour:	Off-White
Dry solids content (%):	100
COMPONENT B	
Consistency:	thick liquid
Colour:	greenish white
Density (g/cm ³):	1.01
pH:	10
Dry solids content (%):	21
Brookfield viscosity (mPa·s):	40
APPLICATION DATA (at +23°C - 50% R.H.)	
Mix ratio:	white: component A: 18 kg + component B: 4.4 kg grey: component A: 20 kg + component B: 4.4 kg
Consistency of mix:	creamy paste
Density of mix (kg/m ³):	1600
pH of mix:	approx. 11
Application temperature range:	from +5°C to +30°C
Pot life of mix:	45 mins.
Open time (according to EN 1346):	approx 20 mins.
Setting time:	approx. 2 hours
Grouting:	after 3 hours
Set to light traffic:	after 3-4 hours
Ready for use:	after 24 hours (3 days for basins and swimming pools)
FINAL PERFORMANCES	
Tensile adhesion strength according to EN1348 (N/mm ²):	
– initial (after 28 days):	2.5
– after heating:	2.2
– after water immersion:	1.3
– after freeze/thaw cycles:	1.4

Flexural strength (N/mm ²): – after 24 hours – after 7 days – after 28 days	3.0 5.0 6.0
Compressive strength (N/mm ²): – after 24 hours – after 7 days – after 28 days	10.0 17.0 20.0
Resistance to acids:	fair
Resistance to a alkalis:	excellent
Resistance to oils:	excellent
Resistance to solvents:	excellent
Temperature when in use:	from -30°C to +90°C
Deformability according to EN 12004:	S1 - deformable

N.B.

Whilst we try to ensure that any advice, recommendations or information given in our literature is accurate and correct, we have no control over the circumstances in which our product is used. It is therefore important that the end users satisfy themselves that the product and conditions are suitable for the envisaged application. No warranty can be given or responsibility accepted other than, that the product supplied by us will meet our written specification. End users should ensure that our latest product data and safety information sheets have been consulted prior to use. Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.co.uk

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation. The most up-to-date TDS can be downloaded from our website.

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