



# MapeGrip Plus



**Brilliant white, slip resistant, flexible, water-resistant paste adhesive for ceramic tiles**



## CLASSIFICATION IN COMPLIANCE WITH BS EN 12004

**MapeGrip Plus** is a water resistant (D) improved (2) water-based adhesive with resistance to slip (T) and is therefore classified as D2T.

Conformity of **Mapegrip Plus** is declared in **ITT** certificate **no. (14109)-519** issued by **Lucideon UK**.

## WHERE TO USE

- Bonding of all types of ceramic tiles and mosaics to a wide variety of backgrounds including those with slight deformation.
- Internal walls only.
- Wet duty areas including washrooms and showers.
- On MAPEI tanking systems such as **Mapegum WPS**.

## Some application examples

- Fixing tiles to sand: cement rendered walls.
- Fixing absorbent tiles to existing tiled walls.
- Fixing tiles to tilebacker panels.
- Fixing absorbent tiles to well bonded painted finishes.
- Fixing tiles to plaster and plasterboard.
- Fixing insulation panels to plastered walls.

## TECHNICAL CHARACTERISTICS

**MapeGrip Plus** is a water-based paste adhesive

based on acrylic resins, fine-graded mineral fillers and additives.

**MapeGrip Plus** is a ready-for-use thixotropic paste that is easily spread on vertical surfaces. It is brilliant white and has an excellent initial grab.

**MapeGrip Plus** cures through the evaporation of water to form an extremely strong bond that resists vibration and minor deformation in the background.

**MapeGrip Plus** is water-resistant and suitable for use in wet duty installations including bathrooms, showers and utility rooms.

## RECOMMENDATIONS

- Use only in internal applications.
- Do not use on floors.
- Do not use where tiling is subjected to continuous immersion in water (swimming pools, fountains etc.).
- Do not use on metal backgrounds or to fix non-absorbent tiles to impervious backgrounds.
- Do not use to install natural or synthetic stone tiles in particular light coloured stone such as Carrara marble.
- Do not use on lime-washed walls.
- Do not use below +5°C.
- Contact the MAPEI Technical Services Department when fixing tiles to other background types.



## APPLICATION PROCEDURE

### Preparing the background

The background must be dry, sound and stable and be free from oil, grease, wax, crazing, laitance and loose or flaking areas. Cementitious renders must be at least 2 weeks old and dry (generally drying times will be a minimum of 1 week per cm thickness). Gypsum plaster walls must be a minimum of 4 weeks old and dry. It is not necessary to prime gypsum based backgrounds prior to the application of **MapeGrip Plus**, provided the background is not friable or dusty.

**MapeGrip Plus** is also suitable for fixing absorbent tiles to painted surfaces provided that the paint is well bonded to the background.

### Applying the adhesive

Apply **MapeGrip Plus** to the background with an appropriate notched trowel.

In dry areas a minimum contact of 65% between adhesive and tile back should be achieved. This figure should be 100% in wet duty areas.

- For mosaics up to 50x50 mm the MAPEI No. 4 square notched trowel should be used.
- For standard wall tiles and dry areas use the MAPEI No. 5 v-notched trowel.
- For irregular surfaces, deep profiled tiles and wet duty areas use the MAPEI No. 6 trowel.

The open time of **MapeGrip Plus** under normal temperature and humidity conditions is approximately 20 minutes. Only apply sufficient adhesive that can be tiled within the open time of the adhesive. If the adhesive has formed a skin it must be removed, discarded and replaced with fresh adhesive.

### Installing the tiles

Press the tiles firmly into the adhesive bed with a twisting and sliding action to ensure adequate transfer of adhesive. Tiles may be adjusted up to 30 minutes after positioning dependent on the porosity of the tile and background.

### Bonding insulation materials

Insulation panels or decorative ceiling panels can be either spot bonded or fully bonded.

Apply sufficient **MapeGrip Plus** with a notched trowel, smooth trowel or other suitable tool to ensure good contact. Install the materials using firm pressure to ensure a good bond is achieved.

### Grouting and sealing

Grout joints can be grouted at least 12 hours under normal circumstances. When tiling on to impervious backgrounds such as existing wall tiles it may be necessary to leave the tiles for longer before grouting. Use the appropriate grout from the MAPEI product range. Movement joints and general watertight sealing must be carried out with the appropriate sealant from the MAPEI range.

### Ready for use

Tiled finishes can be put into full service after 7-14 days dependent on the absorption of the tiles and background.

## Cleaning

Before it has hardened **MapeGrip Plus** can be cleaned from the tile face and tools using clean water and a sponge. An abrasive pad may be used to facilitate the cleaning of tools.

Once cured the adhesive may be removed mechanically or with acetone or white spirit. Wear suitable protective clothing and observe health and safety data prior to using these materials.

## CONSUMPTION

Bonding ceramic mosaics: ca. 1.5 kg/m<sup>2</sup>  
(No. 4 trowel)

Standard tiles 150x150 mm on render/plaster: ca. 1.8-2.5 kg/m<sup>2</sup>  
(No. 5 trowel)

Larger tiles or wet duty areas: ca. 3.0-4.0 kg/m<sup>2</sup>  
(No. 6 trowel)

Spot bonding insulation materials: ca. 0.5-0.8 kg/m<sup>2</sup>

Full bonding insulation materials: ca. 2.5 kg/m<sup>2</sup>

## PACKAGING

**MapeGrip Plus** is supplied in 15 kg plastic buckets.

## STORAGE

12 months when stored under dry, cool conditions in its original unopened packaging. Protect from frost.

## HEALTH & SAFETY INFORMATION

**MapeGrip Plus** 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

*While the information and guidelines contained within this data sheet are correct with regard to the company's knowledge and vast experience, they must only be considered under all circumstances as an indication and must be subject to confirmation only following long-term practical application. Therefore the user of this product must ensure beforehand that it is suitable for the intended application and will be held responsible for any consequences deriving from its use.*

Please refer to the current version of the Technical Data Sheet, available from our website [www.mapei.com](http://www.mapei.com)

**All relevant references for the product are available upon request and from [www.mapei.com](http://www.mapei.com)**

## TECHNICAL DATA (typical values)

In compliance with:

– European EN 12004 as D2T

### PRODUCT IDENTITY

**Consistency:** thixotropic paste

**Colour:** brilliant white

**Density:**  $1.65 \pm 0.05$

**Dry solids content (%):**  $74 \pm 1$

**Brookfield Viscosity (mPa·s):** 850,000

### APPLICATION DATA (at +23°C - 50% R.H.)

**Application temperature range:** from +5°C to +35°C

**Open time (according to EN 1346):** 20 minutes

**Adjustability time:** 30 minutes

**Grouting joints:** after 12 hours

**Ready for use** after 7-14 days dependent on porosity of tile and background

### FINAL PERFORMANCE

**Shear adhesion strength according to EN 1324 (N/mm<sup>2</sup>):**

– initial adhesion:	> 1
– after heat ageing:	> 1
– after water immersion:	> 0.5
– at high temperature:	> 1

**Resistance to moisture:** good

**Resistance to ageing:** excellent

**Resistance to solvents and oils:** poor

**Resistance to acids and alkalis:** poor

**Temperature when in use:** from -30°C to +90°C

**Deformability:** deformable



**MapeGrip  
Plus**



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**2704-9-2015 (UK)**