



# Ultramastic III Super White



**High performance, ready-to-use paste adhesive with no vertical slip and extended open time for the installation of ceramic tiles on walls and floors**

## **CLASSIFICATION IN COMPLIANCE WITH EN 12004**

Ultramastic III Super White is a slip resistant (T) improved (2) dispersion (D) adhesive as class D2T.

Conformity of **Ultramastic III Super White** is declared in **ITT certificate no. 25040266/Gi** issued by the **TUM München laboratory (Germany)** and classification reports **no. 2009-B-4835/06** and **2009-B-4835/09** issued by **MPA Dresden**.

## **WHERE TO USE**

- Bonding of all types of ceramic tiles and mosaic on walls, floors and ceilings in interiors.
- Bonding of thermal and acoustic insulating materials, decorative ceiling panels, foamed concrete blocks

onto

all substrates normally used in building.

Especially recommended for flexible and deformable non-metallic substrates.

## **Some application examples**

Tiling over:

- walls and floors in bathrooms and showers;
- wood surfaces (provided they are moisture-stable, e.g. well bonded water-resistant plywood);
- cement-based renders and substrates;

- concrete walls, either precast or cast on site;
- gypsum plaster or backerboard;
- gypsum board;
- painted wall surfaces (provided the paint is stable and the tiles absorbent);
- existing ceramic tiles (provided one of the surfaces is absorbent).
- large tiles on floors and walls;
- insulating materials over renders;
- ceramic tiles over underfloor heating systems.

## **TECHNICAL CHARACTERISTICS**

**Ultramastic III Super White** is an adhesive in water dispersion based on special acrylic resins, selectively graded minerals and additives.

**Ultramastic III Super White** is a ready-to-use easily trowellable white paste. Its 20-30 mins open time (at +23°C and 50% R.H.) allows tiles to be installed safely and reliably. Tiles adhere immediately without slippage because of **Ultramastic III Super White's** excellent thixotropic properties.

**Ultramastic III Super White** sets when its water disperses. When hardened it has remarkable flexibility, excellent bonding strength and can withstand the vibrations and deformations of building materials.

**Ultramastic III Super White** performs best when completely hardened. Floor and walls are ready for use when the adhesive is completely dry, whether for installations in bathrooms and showers or for use in exteriors sufficiently protected from rain. Its resistance to temperature is excellent up to +90°C.

## RECOMMENDATIONS

**Ultramastic III Super White** is not recommended for installing tiles where water is constantly present (swimming pools, fountains) or over substrates subject to rising damp.

Do not use **Ultramastic III Super White**:

- on metallic substrates, or wooden substrates that are not moisture-stable;
- on substrates that are not thoroughly dry or those subject to constant rising damp;
- to install natural stone, especially light coloured calcareous stone (e.g. Carrara marble).

Avoid installing during very cold and very damp weather.

## APPLICATION PROCEDURE

### Preparing the substrate

**Ultramastic III Super White** can be applied on all substrates which are sound and free of oil, grease, wax, and loose materials. Cementitious substrates must be dry (as a rule, one week of curing for every cm of thickness) and not subject to rising damp.

**Ultramastic III Super White** can be used on gypsum or similar surfaces without primer as long as the gypsum is solid and dry, for light traffic areas.

**Ultramastic III Super White** can be used for installing absorbent ceramic tiles on walls painted with enamel, water-based paint or distemper, as long as the paint is well fastened, with a solid surface and thoroughly clean.

### Spreading the adhesive

**Ultramastic III Super White** should be applied to the substrate with a notched trowel. The choice of trowel depends on the levelness of the substrate, the size of the tiles and the type of back. The adhesive must transfer to at least 60% of the tile in interior installations, while for exteriors 100% transfer is indispensable.

- For mosaic tiles up to 5x5 cm, use MAPEI trowel n. 4 (consumption 1.5 kg/m<sup>2</sup>).
- For normal size ceramic tiles, use MAPEI trowel n. 5 (consumption 2.5 kg/m<sup>2</sup>).
- For uneven surfaces or tiles with highly profiled backs, use Mapei trowel n. 6 (consumption 4 kg/m<sup>2</sup>).

The open time for **Ultramastic III Super White** is approximately 20-30 min at normal temperatures and humidity. The tiles

must be set within that open time and the adhesive must be spread accordingly.

If a surface skin forms the adhesive must be removed and reapplied. Do not use at temperatures below +5°C.

*Do not install outdoors in cold weather without being sure that the adhesive will dry within a few days, and never if frost threatens.*

## Installing the tiles

The tiles should usually be set by twisting and applying firm pressure to ensure transfer of the adhesive.

Any adjustment of the tiles must be done within 30 mins. Tiles installed with **Ultramastic III Super White** should not be washed down unless they are thoroughly dry (approx. 7 days after installation).

## Bonding insulating materials

Apply **Ultramastic III Super White** with a notched trowel or pointing trowel. The adhesive can be applied in various points or on the entire surface. Press the materials firmly into place, staying within the open time of the adhesive.

## Grouting and sealing the joints

The joints should usually be grouted with **Keracolor FF** or **GG**, depending on the size, or with **Ultracolor Plus** (see "The Coloured Grouts" colour chart).

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

For forming expansion and movement joints, use **Mapesil AC** or **Mapesil LM**, one-component silicon sealants, or **Mapeflex AC4**, a one-component acrylic sealant.

In all of the above cases the size of the joints must be planned according to the type of grout and degree of flexibility required.

## READY FOR USE

Surfaces and floors are ready for use after approximately 7 days, depending on the absorption of the substrate, the temperature and relative humidity on site.

## Cleaning

**Ultramastic III Super White** can be cleaned from surfaces with a wet 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 dried it may be removed with benzene, acetone, mineral spirits or **Pulicol 2000**, or by mechanical means.

## CONSUMPTION

### Bonding of ceramic tiles

Mosaic tiles 1.5 kg/m<sup>2</sup>  
(n. 4 trowel)

Tiles 15x15 cm over normal render 2.5 kg/m<sup>2</sup>  
(n. 5 trowel)

## TECHNICAL DATA (typical values)

In compliance with:

– European EN 12004 such as D2T

### PRODUCT IDENTITY

**Consistency:** thick paste

**Colour:** white

**Density (g/cm<sup>3</sup>):** 1.55

**pH:** 9

**Dry solid content (%):** 83

**Brookfield Viscosity (mPa-s):** 800,000

### APPLICATION DATA at +23°C and 50% R.H.

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

**Open time (EN 1346):** 20-30 mins

**Adjustment time:** 30 mins

**Waiting time before grouting:** 12 to 24 hours

**Ready for use:** approx. 7 days, depending on the absorbency of the substrate, and ambient temperature and humidity

### FINAL PERFORMANCES

**a) Adhesion according to EN 1324 (N/mm<sup>2</sup>):**  
– initial: > 1  
– after heat ageing: > 1  
– after water immersion: > 0.5  
– at elevated temperature: > 1

**b) European UEAtc directive (N/mm<sup>2</sup>):**  
– 28 days at +23°C - 50% R.H.: 3.2

**Resistance to moisture:** excellent

**Resistance to ageing:** excellent

**Resistance to solvents and oils:** fair

**Resistance to acids and alkalis:** fair

**Resistance to temperature:** from -20°C to +90°C

**Deformability:** highly deformable

# Ultramastic III Super White



Tiles 15x15 cm over gypsum surfaces or very smooth surfaces	1.8 kg/m <sup>2</sup> (n. 4 trowel)
Floor tiles 15x15 cm to 20x20 cm	3.5 to 4 kg/m <sup>2</sup> (n. 5 or n. 6 trowel)

#### Bonding of insulating materials

Point bonding of foam 0.5 to 0.8 kg/m<sup>2</sup>

Bonding of foamed concrete, etc. 1.5 kg/m<sup>2</sup>

Total bonding on rough surfaces 2.5 kg/m<sup>2</sup>

#### PACKAGING

Ultramastic III Super White is available in plastic buckets of 15 kg and 7.5 kg.

#### STORAGE

24 months in original sealed packaging. Protect from frost.

#### SAFETY INSTRUCTIONS FOR THE PREPARATION AND APPLICATION

Ultramastic III Super White 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.

#### 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.com](http://www.mapei.com)

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