

# MAPESTONE JOINT GHOST

Solvent-free, one-component, rapid-curing and drying binder based on silane-terminated polymers, to grout joints for setts, blocks and pebbles in flexible and pervious architectural stone paving, which are quickly ready for use



## WHERE TO USE

Ideal for grouting previously vibrocompacted architectural paving with natural stone such as pebbles, setts and blocks. It can be used for grouting butted blocks, bricks and porcelain tiles.

## TECHNICAL CHARACTERISTICS

**Mapestone Joint Ghost** is an eco-friendly, solvent-free, one-component, rapid-curing and drying binder based on silane-terminated polymers and not sensitive to moisture. It allows to grout joints that have already been filled with properly sized aggregates and to obtain pervious and flexible natural stone architectural paving made from pebbles, setts and blocks.

The resin is poured deep down and binds to the aggregates to form a strong structure that is also flexible. The result is a system particularly recommended for making architectural road surfaces suitable for vehicles and exposure to high temperature variations.

By using **Mapestone Joint Ghost**, pavings are:

- flexible and pervious;
- rapid-drying with very fast re-opening to traffic;
- not sensitive to moisture;
- proved to be resistant to deicing salts and to thermal shocks;
- prevent moss and grass growth;
- proved to be resistant to street cleaning operations made with street sweepers;
- resistant to acids;
- noise reducing;
- do not need expansion joints.

## RECOMMENDATIONS

- Since the product does not contain isocyanates, the end users do not require the specific training for the use of these substances.
- The absence of isocyanates and solvents grants a safe product for the environment and the users.

- The product may be applied even if the filling aggregates and the natural stone are not completely dry.
- If the product is used on not completely dry aggregates, its curing time extends.
- The bedding and filling aggregates must be previously washed, cleaned and dried and must be free of contaminants such as sand or sand and cement, oils, moss, dust.

## APPLICATION PROCEDURE

**Mapestone Joint Ghost** should be applied after following these operating procedures:

- application of natural stone paving (depending on the loads) and placing over the concrete screed or over stabilised soil with adequate bearing capacity for the intended use. Bedding should have 3/6 mm to 4/8 mm sized dry crushed aggregates, whose Los Angeles abrasion test coefficient is  $\leq 20\%$ ; aggregates should also be between 50 to 80 mm thick, up to a maximum of 90 mm;
- vibrocompaction phase following the size of the stone elements and prior joint filling preferably with the same aggregate used for bedding. During vibrocompaction water can be added in order to wash the aggregates and the stone elements. **Mapestone Joint Ghost** may be used even if the filling aggregate and the natural stone are not completely dry after the compaction phase;
- further joint filling using aggregates with a grain size of 2/4 mm.

**Mapestone Joint Ghost** can be applied manually by using Zéme, i.e. low pressure cylinder (maximum 3 bars) with an expansion tank.

The product should be spilled by carefully carrying out a visual check on the joints in order to prevent it from overflowing on the stone elements.

Applying the product at low pressure means greater safety for the operators.



*Placing the porphyry cobbles in position*



*Close up of the newly-laid cobbles*



*Filing the joints with fine gravel*



*Application of Mapestone Joint Ghost*

## CONSUMPTION

**Mapestone Joint Ghost** consumption depends on the joint size and on the morphological characteristics of the filling aggregates. For purely illustrative purposes, with 1 kg of **Mapestone Joint Ghost** it is possible to seal 1 m<sup>2</sup> of approx. 8/10 cm setts.

## CLEANING

If the product overflows from the grout lines, it is recommended to remove the excess material from around the grout lines as soon as possible by removing the spilled product and then by treating the area with **Mapestone Joint Cleaner**.

The same product can be applied for the dispenser cleaning as well.

A thin blade (e.g. cutter) can be used to remove hardened product on smooth stones.

## PACKAGING

25 kg drums.

## STORAGE

Keep stored in a dry place at temperatures between +10°C and +30°C for 12 months. Keep away from humidity.

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

PRODUCT FOR PROFESSIONAL USE.

## TECHNICAL DATA (typical values)

### PRODUCT IDENTITY

Consistency:	liquid
Color:	light yellow
Dry solids content:	100%

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

Viscosity (EN ISO 3219):	450-500 mPa·s
Density (EN ISO 2811-1):	1.10 g/cm <sup>3</sup>
Formation of surface skin and dust dry:	approx. 1 hour and a half

### APPLICATION DATA (at +23°C and 50% R.H.), mixed with Trentino porphyry gravel Ø 3-4 mm, mass ratio 1:1

Hydraulicity index / drainability (EN 12697-40) (Lsec/m <sup>2</sup> ):	pending
Compressive strength, 3 days curing (EN 12390-3):	4.5 MPa
Compressive strength, 7 days curing (EN 12390-3):	5 MPa
On site pull-off method at +5°C (EN 1542):	1.0 MPa
On site pull-off method at +40°C (EN 1542):	1.5 MPa

Laboratory freezing- and thawing durability in simulated field environment - 100 cycles in 8% NaCl solution (ACI Technical Paper No. 112 - M57) - change in mass (%):

pending

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

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

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