



MAXJOINT[®] PAV

FLUID MORTAR FOR FILLING JOINTS IN STONE, FLAGSTONE, CONCRETE PAVINGS AND PRECAST CONCRETE



DESCRIPTION

MAXJOINT[®] PAV is a mortar made with cements, selected aggregates and special additives that once mixed with water provides a product of high fluidity, high mechanical strength and shrinkage-compensated properties, specially designed for filling joints in outdoor and indoor pavements.

APPLICATION FIELDS

- Filling joints in paving of natural stone, brick, concrete and slate.
- Pavements exposed to both pedestrian and vehicle traffic.
- Filling paving-stone in garden areas, residential and public footpaths, commercial squares, etc.

ADVANTAGES

- High early and ultimate mechanical strength.
- High fluidity, allows for a quick and easy placement.
- Very good adhesion on substrate.
- Shrinkage-compensated, it hardens with no tension and does not delaminate from substrate surface.
- Great cohesion of the fresh mortar with no segregation or bleeding.
- High resistance to grease and oil.
- Does not contain chlorides or metallic particles.

APPLICATION INSTRUCTIONS

Joint and substrate preparation

Consolidate and prepare substrate to suit expected traffic requirements. Joints must be solid and sound, clean and free of dust, grease, loose particles and old tile mortars in all depth. Prior to

application, dampen the joints but do not leave any puddles of water.

Expansion joints must be treated with suitable elastomeric sealants.

Mixing

A 25 kg bag of **MAXJOINT® PAV** requires from 3 to 3,5 litres of clean water for mixing, depending on the consistency required (12 – 14 % of weight of product). Pour **MAXJOINT® PAV** gradually into a clean drum containing the total amount of water and mix mechanically using a low speed drill (400 – 600 rpm) until a lump-free homogeneous paste is achieved. Allow the mix to rest for 2 – 3 minutes and re-mix briefly before application. Place **MAXJOINT PAV** within 10 – 15 minutes.

Application

Pour **MAXJOINT® PAV** onto the pavement and spread with a rubber squeegee or rubber float into the joints ensuring that they are completely filled with material. Remove the excess mortar and use a tuck-pointing trowel to get a smooth finish.

Clean the paving surface immediately with a damp sponge or with low water pressure once mortar starts to harden, avoiding water damages to the joints.

Application conditions

Do not apply if rain is expected within 24 hours.

Do not apply with substrate and/or ambient temperature is at or below 5°C, or when temperatures are expected to fall below 5 °C within 24 h. Do not apply to frozen or frost-covered surfaces.

For applications at hot temperatures, low relative humidity and/or windy conditions, surface must be wet thoroughly with plenty of water prior to application. Avoid exposure to direct sunlight with extreme warm conditions (> 35°C).

Curing

Provide a moist curing for at least the first 24 hours by fogging or protecting with wet burlap or rags covered with plastic sheeting. A quality curing compound such as **MAXCURE®** (Technical Bulletin n°: 49) can also be used. These curing procedures should be observed mainly with a combination of high temperature (> 30 °C), wind, low humidity and/or direct sunlight.

Allow a minimum curing time of 24 hours at 20° C and 50% R.H. before allowing pedestrian traffic.

Lower temperatures and/or higher R.H. values increase the curing time and the servicing time for the pavement.

Cleaning

Tools and equipments should be cleaned immediately with water after use. Once it harden can only be removed by mechanical means.

CONSUMPTION

One kg of **MAXJOINT® PAV** fills approximately 2 litres of volume. Approximate consumption is 2 kg/m²·mm thickness of **MAXJOINT® PAV**.

Consumption may be calculated with the following formulae;

Consumption (kg/m²): ((A+B) / (A*B)) * C * D * 1,75

A: Sett width (mm), B: Sett length (mm), C: Sett wound depth, and D: width of the sett wound (mm).

So for a surface coating with 10 mm of sett wound width and 70 mm sett wound depth the consumption of **MAXJOINT® PAV** is 23 kg/m² for a surface coated with sett pieces of 15x10 cm.

These values are for guidance only and may vary depending on porosity, texture and substrate conditions and application method. Perform a preliminary test on-site to ascertain the total consumption exactly.

IMPORTANT INDICATIONS

- Do not add cement, aggregates or any other compound to **MAXJOINT® PAV**.
- Do not exceed the amount of mixing water recommended.
- To keep the workability of fresh mortar, remix briefly again but never add more water.
- For other uses not specified on this Technical Bulletin or further information, consult the Technical Department.

PACKAGING

MAXJOINT® PAV is packaged in 25 kg bag, available in grey and white colour. Others colours by request.

STORAGE

Twelve months in its original packaging, in a dry and covered place protected from direct sunlight, humidity and frost, at temperatures above 5°C.

SAFETY AND HEALTH

MAXJOINT® PAV is non-toxic but it is an abrasive compound. Rubber gloves and safety goggles must be used during application. In case of skin contact, wash affected areas with soap and water.

In case of eye contact, rinse with clean water but do not rub. If irritation persists, seek medical attention.

Safety Data Sheets of **MAXJOINT® PAV** are available by request.

Disposal of the product and its empty packaging must be made by the final user and according to existing national regulations.

TECHNICAL DATA

| Characteristics of the product | |
|--|----------------------|
| Appearance and colour | White or grey powder |
| Maximum aggregate size (mm) | 0 – 2,0 |
| Density of mortar in powder form (g/cm ³) | 1,28 ± 0,1 |
| Mixing water (% by weight) | 13 ± 1 |
| Application and curing conditions | |
| Ambient and substrate optimum temperature (°C) | 10 - 30 |
| Setting time at 20 °C (h) | 6 - 7 |
| Curing time at 20 °C and 50% R.H. for pedestrian traffic (h) | 24 |
| Characteristics of the cured product | |
| Density of cured and dry mortar (g/cm ³) | 2,2 ± 0,1 |
| Compressive strength, (12 % mixing water),(MPa) | |
| - 24 hours | 25,0 |
| - 7 days | 52,5 |
| - 28 days | 71,0 |
| Flexural strength, (12 % mixing water),(MPa) | |
| - 24 hours | 3,5 |
| - 7 days | 8,1 |
| - 28 days | 10,2 |
| Consumption (kg/m ² -mm thickness) | 2,0 |

GUARANTEE

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