

MAPEJOINT 100/25

Pre-cast composite polymeric joint



WHERE TO USE

Mapejoint 100/25 is a pre-cast joint made from composite material inserted in old, damaged or worn joints, including those with large amount of movement or subject to intense traffic in industrial settings.

Mapejoint 100/25 protects joints from damage and wear caused by moving vehicles. Installation and hardening of the **Mapejoint 100/25** system is quick and joints can be put back into service in just 12 hours, thereby keeping production downtimes and interruptions to traffic flow to a minimum.

Some application examples

Repairing and protecting expansion joints in department stores, logistics hubs, shopping centres, engineering and manufacturing factories in general, car parks, etc.

TECHNICAL CHARACTERISTICS

Mapejoint 100/25 is a pre-cast joint made from composite material according to a formulation developed in MAPEI R&D laboratories. It is bonded in place so that it spans joints, including those subject to dynamic loads, in floors in industrial surroundings exposed to intense traffic. Once applied, **Mapejoint 100/25** guarantees that the repaired area around the joint is flat and highly resistant to impact loads and abrasion. Also, because of its particular double-comb construction which spans the joint under the strip, it allows for large amounts of horizontal movements and expansion in the substrate. The installation method for **Mapejoint 100/25** ensures that the area around where it has been applied remains flat, which reduces the effect of impacts transmitted by vehicles moving over the joint and, as a result, damage to tyres and injury to drivers.

ADVANTAGES

- Quick to apply and ready for use.
- Repaired areas are very flat.
- Wheeled vehicles pass over the joint very smoothly; reduces the effect of impact and shock loads.
- Prevents damage to tyres and extends their service life.
- Lower risk of impact injury to drivers.
- Highly durable.
- Excellent mechanical characteristics and resistance to chemicals.
- Supports large amounts of movement of the existing joint underneath.

RECOMMENDATIONS

- Do not apply **Mapejoint 100/25** if the temperature is lower than +5°C or higher than +35°C.
- Do not apply **Mapejoint 100/25** on substrates that are not structurally suitable for the static and dynamic loads expected.
- Do not apply **Mapejoint 100/25** on wet, greasy, crumbling or dusty substrates or on substrates that cannot guarantee a monolithic bond with the system.

APPLICATION PROCEDURE

Mapejoint 100/25 is 250 mm wide so a suitable seat needs to be created in the substrate to accommodate the precast joint. Trace two lines running parallel to the joint according to the length of the pocket to be formed; one line 130 mm to the right of the joint and one line 130 mm to the left of the joint.

Make a cut along the two lines around 35-40 mm deep using an angle grinder with a diamond disk. Then make a series of parallel cuts to the same depth running towards the joint at a distance of 20-25 mm.

Use a demolition hammer to demolish the area of substrate where the cuts have been made and remove all the rubble and dust from the seat that has been created.

Place the **Mapejoint 100/25** inside the seat and check to make sure it doesn't sit above the surface of the floor. If necessary, remove any areas of the seat that make **Mapejoint 100/25** hold above the level of the floor; make sure you don't go down too deep into the substrate. Where necessary, repair or level off the substrate using **Mapefloor EP19** three-component epoxy mortar.

Insert filler material into the joint in the floor, e.g. one or two cords of compressible material such as **Mapefoam**, to prevent the adhesive used to bond the precast joint running into and filling the existing joint.

The filler must then be covered with an adhesive tape, of 5-6 cm width, applied on the whole length of the joint.

On the side of the **Mapejoint 100/25** with tape running along the middle, which should never be removed, apply a continuous, even layer of **Mapefloor JA** or **Mapefloor JA Fast** epoxy adhesive with the notched edge of the special trowel supplied with the strip and also along the bottom and sides of the pocket using the specially shaped side of the trowel.

The overall consumption rate of **Mapefloor JA** or **Mapefloor JA Fast** is around 5-6 kg per metre of joint, depending on the condition of the substrate.

Once the adhesive has been spread, remove the adhesive tape that was applied over the filler from the centre of the joint.

Place **Mapejoint 100/25** inside the seat and push it down into it; a rubber hammer may be used if required. Then place the next piece of **Mapejoint 100/25** in position, making sure it is firmly butted against the previous piece. Walk over the **Mapejoint 100/25** to make sure it is in the correct position in the seat and to expel any excess **Mapefloor JA** or **Mapefloor JA Fast**; this must be removed with a trowel while still wet.

Once the adhesive has hardened, grind the surface of **Mapejoint 100/25** with a diamond disk grinder to form a flat surface and to blend it in to the floor around the precast joint.

If a coloured finish or extra protection is required, **Mapejoint 100/25** may be painted with a suitable product from the **Mapefloor** range.

CLEANING

Clean tools used to mix and apply **Mapefloor JA** or **Mapefloor JA Fast** immediately after use with thinners such as ethanol, toluene, etc. Once hardened it may only be removed mechanically.

PACKAGING

Mapejoint 100/25 is supplied in one metre long pieces measuring 250 mm wide by 25 mm thick.

STORAGE

Store in a covered dry area.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapejoint 100/25 is an article that, according to current European Regulations (Reg. 1906/2007/EC - REACH), does not require a Safety Data Sheet. When using this product it is recommended to wear gloves and safety goggles and to follow the safety guidelines for the area in which work is carried out.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Dimensions (mm):

length: 1000
width: 250
thickness: 25

Colour:

grey

Maximum width of existing joint (mm):

30



Maximum permitted horizontal movement (mm):	15
Compressive strength (N/mm ²):	90
Flexural strength (N/mm ²):	75
APPLICATION DATA	
Application temperature:	+5°C to +35°C

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

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.

ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

6795-10-2019-en

Any reproduction of texts, photos and illustrations published here is prohibited and subject to prosecution

