

MAPEJOINT 100/12

Pre-cast composite polymeric joint



WHERE TO USE

Mapejoint 100/12 is a pre-cast joint made from composite material that is inserted into old, damaged or worn joints, including those with large amounts of movement or subjected to intense industrial traffic.

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

Some application examples

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

TECHNICAL CHARACTERISTICS

Mapejoint 100/12 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 straddles joints, including those subjected to dynamic loads, in industrial type floors subjected to intense traffic. Once inserted into a joint, **Mapejoint 100/12** guarantees that the repaired area around the joint remains flat and highly resistant to impact loads and abrasion. Also, because of the special double-comb construction straddling the joint under the strip, it allows for medium amounts of horizontal movements and expansion in the substrate.

Thanks to the level of flatness in areas repaired with **Mapejoint 100/12**, shock and impact loads acting on vehicles passing over the joint are reduced and, as a result, premature deterioration of their wheels and tyres and trauma to drivers of the vehicles are also reduced.

ADVANTAGES

- Quick to apply and put into service.
- Repaired areas are very flat.
- Wheeled vehicles can pass over the joint smoothly, reducing 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.

RECOMMENDATIONS

- Do not apply **Mapejoint 100/12** if the temperature is lower than +5°C or higher than +35°C.
- Do not apply **Mapejoint 100/12** on substrates that are structurally unsuitable for the level of static and dynamic loads anticipated.
- Do not apply **Mapejoint 100/12** on wet, greasy, crumbling or dusty substrates or on substrates that cannot guarantee a monolithic bond of the system.

APPLICATION PROCEDURE

Mapejoint 100/12 is 120 mm wide so a suitable groove needs to be created in the substrate to accommodate the strip. Trace two lines running parallel to the joint according to the length of the groove to be formed; one line 65-70 mm to the right of the joint and another line 65-70 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 centre of the joint at a pitch of 15-20 mm. Use a pneumatic hammer to demolish the area of substrate where the cuts have been made and remove all the rubble and dust from the groove that has been created. Place **Mapejoint 100/12** inside the groove and make sure it doesn't protrude the surface of the floor. If necessary, remove any areas of the groove that are causing the strip to protrude 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 with **Mapefloor EP19** three-component epoxy mortar. Insert one or two beads of compressible filler material into the joint in the middle of the groove, such as **Mapefoam**, to prevent the adhesive used to bond the strip running into and filling it. Cover the filler material with adhesive tape around 3-4 cm wide along the entire length of the groove. One side of the **Mapejoint 100/12** strip has tape along the centre that must be not removed. Apply on that side an even layer of **Mapefloor JA** or **Mapefloor JA Fast** epoxy adhesive along this side with the notched edge of the special spreader supplied with the strip, and also along the bottom and sides of the groove using the specially shaped side of the spreader. The overall consumption rate of **Mapefloor JA** and **Mapefloor JA Fast** is 2.5-3 kg per metre of joint, depending on the roughness of the substrate. After applying the adhesive, remove the tape placed along the centre of the groove over the filler material. Place the **Mapejoint 100/12** strip inside the groove and push it down into it; a rubber hammer may be used if required. Then place the next piece of **Mapejoint 100/12** in position, making sure it is firmly butted against the previous piece. Walk over the **Mapejoint 100/12** strip to make sure it is in the correct position in the groove and to expel any excess **Mapefloor JA** or **Mapefloor JA Fast**; this can then be removed with a trowel while still wet. Once the adhesive has set, grind the surface of **Mapejoint 100/12** with a suitable diamond disk grinder to create a smooth surface and blend it in with the floor around the joint. If a coloured or more protective finish is required, **Mapejoint 100/12** may be painted over 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 set it may only be removed mechanically.

PACKAGING

Mapejoint 100/12 is supplied in one metre long pieces measuring 120 mm wide by 25 mm thick.

STORAGE

Store in a covered dry area.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapejoint 100/12 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: 120 thickness: 25
Colour:	grey
Maximum width of open joint (mm):	10

Maximum permitted horizontal movement (mm):	5
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

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