

WHERE TO USE

Waterproofing indoor floor and wall surfaces that are not subject to rising damp.

Flexible, anti-fracture membrane. Apply before the installation of ceramic tiles or stone material.

Mapegum WPS may be used on the following:

- plasterboard, gypsum or cementitious render, lightweight cement block and marine-plywood;
- cementitious, anhydrite, wooden and magnesite substrates and existing ceramic and natural stone after the application of Mapeprim SP primer.

Some application examples

- Waterproofing walls and floors in bathrooms and shower cubilces before laying ceramic tiles, natural stone and mosaic.
- Waterproofing kitchen walls and floors and work tops before laying ceramic tiles and natural stone.

TECHNICAL CHARACTERISTICS

Mapegum WPS is a ready-to-use, solvent-free, single component, grey-coloured paste with a base of synthetic resins in water dispersion. Mapegum WPS has a thixotropic consistency which makes it easy to apply on horizontal, sloping and vertical surfaces. After rapid evaporation of the water content, Mapegum WPS forms a flexible membrane which is not sticky and which is strong enough to withstand light pedestrian traffic. It also forms an excellent surface which bonds perfectly to adhesives used for laying ceramics, marble and natural stone.

The flexibility of **Mapegum WPS** enables it to withstand normal expansion and contraction movements of the substrate due to temperature variations and vibrations. Thanks to the flexibility of **Mapegum WPS**, it acts as an anti-fracture membrane for substrates which are subject to light cracking (< 1 mm).

Mapegum WPS complies with the requirements of a Class III membrane according to AS/NZ4858:2004 Wet Area Membranes.

Mapegum WPS is resistant to water, limewater (pH > 12), water which contains chlorides and normal household detergents and cleaning products. Systems based on the use of Mapegum WPS flexible membrane, on which various types of tiles have been laid using MAPEI cementitious-based adhesives (such as Granirapid, Keraflex and Adesilex P9) and water dispersion adhesives (Ultramastic Eco and Ultramastic III), have been certified for use in damp environments by the following institutes:

- Säurefliesner (Germany);
- Sp Swedish National Testing & Research Institute (Sweden);
- Norwegian Research and Building Institute (Norway);
- Branz (Australia and New Zealand).

RECOMMENDATIONS

- Do not apply Mapegum WPS if the temperature is lower than +5°C.
- Create sloping surfaces where necessary to avoid the formation of puddles of water.

Mapegum's



Applying Mapegum WPS on a wall with a roller



Bathroom wall waterproofed with Mapegum WPS and Mapeband



Spreading Mapegum WPS around the drain in a shower cubicle

TECHNICAL DATA (typical values)

PRODUCT IDENTITY Consistency: paste Colour: light grey Density (g/cm²): 1.45 pH: 9.0 Dry solids content (%): 75 Brookfield viscosity (mPa·s): 130,000 (rotor E - 5 revs) Minimum film-forming temperature: +5°C Application temperature range: from +5°C to +35°C Completely dry (2 mm of thickness) at +23°C: 12 hours Waiting time before laying coating material: 12-24 hours FINAL PERFORMANCES Resistance to temperature variations: excellent Resistance to acids and alkalis: good Resistance to acids and alkalis: good In service temperature range: from -30°C to +100°C Water absorption (%) (by weight) 7 days at +23°C + 21°C to +100°C Vapour permeability (u): 650 (Standard UNI 8202/22a) Lingermeability to water under pressure: according to EN 14891-A.7 (1.5 bar of positive lift for 7 days): no penetration no penetration Crack-bridging ability at +20°C according to EN 14891-A.8.2 (m/m): 12 Bood strength according to EN 14891-A.8.2 (m/m): 12 Bood strength according to EN 14891-A.8.2 (m/m): 12				
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		> 0.5	1.6	
to EN 14031-A.0.3 (N/IIIIII):	Bond strength after immersion in water according to EN 14891-A.6.3 (N/mm²):	> 0.5	1.2	

Bond values according to EN 14891 measured using Mapegum WPS and C2 type cementitious adhesive according to EN 12004

> 0.5

> 0.5

> 0.5

1.6

1

1.3

Bond strength after application of heat source according to EN 14891-A.6.5 (N/mm²):

Bond strength after immersion in basic water according to EN 14891-A.6.9

Bond strength after freeze-thaw cycles according to EN 14891-A.6.6 (N/mm²):



- Do not apply Mapegum WPS on damp cementitious substrates or on substrates which are subject to rising damp.
- Do not apply Mapegum WPS on bitumen or asphalt membranes which could bleed oil or plasticisers.
- Do not use Mapegum WPS to cover cracks which are subject to shearing movements.
- Mapegum WPS must be protected from abrasion caused by pedestrian traffic by installing ceramic tiles or stone material.

APPLICATION PROCEDURE Preparation of the substrate

Substrates must be solid, clean, dry and free of oil, grease, old paintwork or any other material which could compromise bonding. Thoroughly clean all the mould, loose material etc. from existing surfaces to be waterproofed (existing flooring, old bitumen membranes, asphalt, metallic surfaces, etc.) by washing and brushing them down, or by spraying water and steam.

Cementitious substrates must be stable and dry, and not subject to rising damp. Substrates which are highly absorbent or gypsum must be pre-treated with **Primer G** (usually diluted with water at a ratio of 1:1 or 1:2 to ensure thorough penetration). Wait several hours until the coating of **Primer G** is completely dry.

Anhydrite or gypsum substrates must be perfectly dry (maximum residual humidity 0.5%), sanded and treated with a coat of **Primer G** or **Primer S**. Existing substrates of ceramic tiles or natural stone must be treated with **Mapeprim SP** primer before applying **Mapegum WPS**.

If a slope has to be created and the base needs to be smoothed off before spreading on **Mapegum WPS**, use one of the recommended MAPEI products.

Application of the product

Mapegum WPS may be applied by trowel, with a roller, by brush or spray (if required, dilute with up to 5% of water). The product must be applied evenly in thin

coats (approx. 1 mm maximum per coat). Wait until the first coat is dry before applying further coats crossways (1-2 hours according to temperature conditions).

The final thickness of **Mapegum WPS** must never be less than 1 mm, in order to form a consistent, flexible continuous coat. Make sure that there are no gaps caused by imperfections in the substrate.

Mapegum WPS is used as an anti-fracture membrane on cracked substrates, we recommend inserting a layer of 4.5x4 mm Mapenet 150 in the first layer of fresh Mapegum WPS to act as a reinforcement (refer to the Mapenet 150 Technical Data Sheet). To further improve both elongation at failure and crack-bridging of Mapegum WPS, we recommend inserting Mapetex Sel large-mesh non-woven polypropylene fabric (refer to the Mapetex Sel Technical Data Sheet).

After 12-24 hours from applying the final coat of **Mapegum WPS** (according to temperature conditions), the surface is ready for laying ceramic tiles or natural stone etc. Use an adhesive from the MAPEI range to lay ceramic tiles and natural stone; class C2 if it is cementitious based or class D2TE if it is a water dispersion type, in accordance with Standard EN 12004.

In order to guarantee continuity in the waterproofing coat, we recommend placing **Mapeband**, alkali-resistant rubber tape with felt, between the wall and the floor and between contiguous walls before applying **Mapegum WPS**.

Special **Mapeband** or **Mapeband PE 120** pieces are available to be inserted in correspondence of corners, drains and pipe-work.

Mapeband or Mapeband PE 120 must be bonded to the substrate using Mapegum WPS and must be completely embedded in the waterproofing layers.

Laying the tiles

After applying **Mapegum WPS** wait:

- 12-24 hours on absorbent substrates;
- 4-5 days on substrates which are not absorbent.

Lay the tiles using an adhesive from the MAPEI range (such as **Keraquick**, **Granirapid**, **Adesilex P9**, **Keraflex** or **Ultramastic III**); the width of the joints depends on the size of the tiles to be laid. Grout the tile joints using **Ultracolor Plus**, **Keracolor FF** or **GG** plus **Fugolastic** or **Kerapoxy**, available in a variety of colours. Expansion joints must be sealed using the special MAPEI sealants.

Cleaning

Mapegum WPS may be easily removed while still fresh from tools and surfaces with water.

CONSUMPTION

The consumption of **Mapegum WPS** is approximately 1.5 kg/m² per mm of thickness.

PACKAGING

Mapegum WPS is available in 5, 10 and 25 kg drums.



Positioning the special piece of Mapeband over Mapegum WPS



The special piece of Mapeband embedded in the Mapegum WPS



End result of a waterproofing treatment using Mapegum WPS and Mapeband

Mapegl



Applying Mapegum WPS with a brush







Laying glass mosaic



STORAGE

24 months in original packaging. Protect from frost.

SAFETY INSTRUCTIONS FOR PREPARATION AND **APPLICATION**

Mapegum WPS is not considered a dangerous substance according to current norms and regulations regarding the classification of preparations. It is however recommended to wear gloves and eye protection and take the usual precautions when handling chemical products.

For further and complete information about the safe use of our product

please refer to our latest version of the Material Safety Data Sheet, which is available upon request, or can be downloaded from www.mapei.com.au.

PRODUCT FOR PROFESSIONAL USE.

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



All relevant references for the product are available upon request and from www.mapei.com.au

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