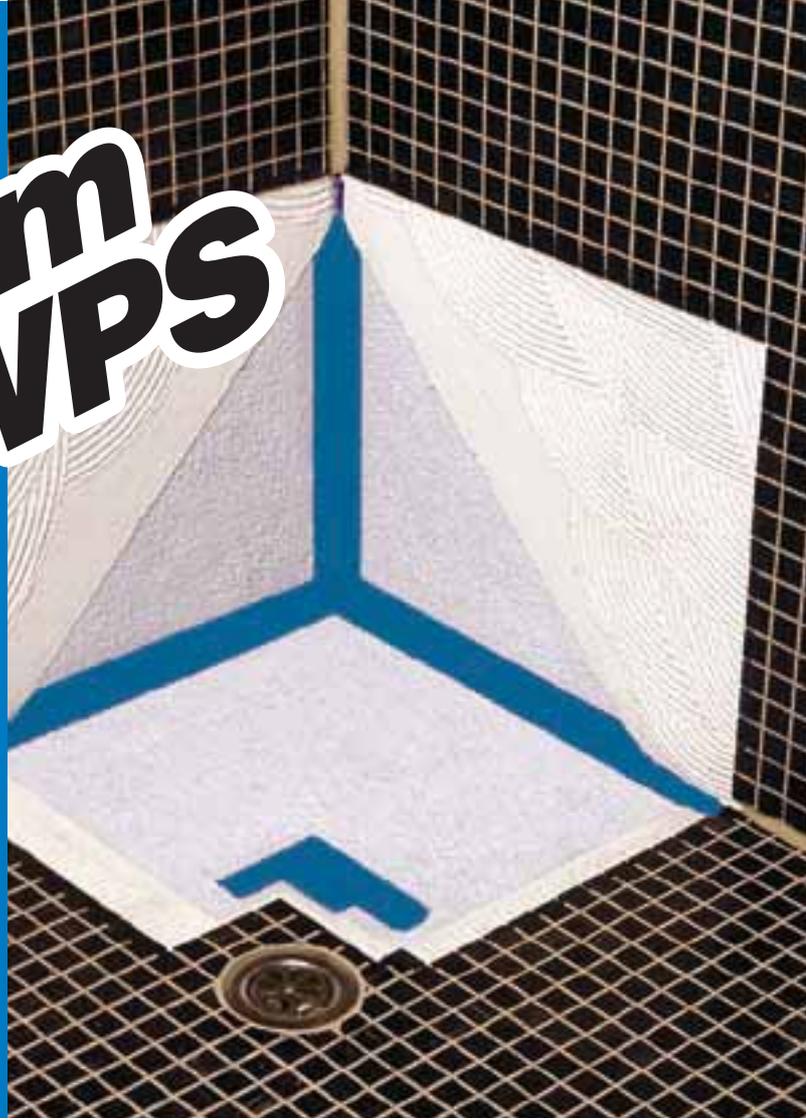


Mapegum WPS

Fast drying flexible liquid membrane for interior waterproofing



WHERE TO USE

Waterproofing indoor floor and wall surfaces that are not subject to continuous immersion in water, or 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 cubicles 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 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 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).

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.
- Do not apply **Mapegum WPS** on damp cementitious substrates or on substrates which are subject to rising damp.

Mapegum WPS



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/cm³):	1.45
pH:	9.0
Dry solids content (%):	75
Brookfield viscosity (mPa·s):	180,000 (rotor E - 5 revs)
Shelf life:	24 months in its original, unopened packaging. Protect from frost
Hazard classification according to Directive 99/45/CE:	none. Before using refer to the "Safety instructions for the preparation and application" paragraph and the information on the packing and Safety Data Sheet
Customs class:	4002 11 00

APPLICATION DATA

Minimum film-forming temperature:	+5°C
Application temperature range:	from +5°C to +35°C
Completely dry (2 mm of thickness) at +23°C:	5 hours
Completely dry (2 mm of thickness) at +5°C:	12 hours
Waiting time before laying dressing material:	12-24 hours

FINAL PERFORMANCES

Resistance to temperature variations:	excellent
Resistance to ageing:	excellent
Resistance to solvents and oil:	good
Resistance to acids and alkalis:	good
Elongation at breakage (DIN 53504) (%):	180
In service temperature range:	from -30°C to +100°C
Water absorption (%) (by weight) 7 days at +23°C + 21 days immersed in water:	10 (Standard UNI 8202/22a)
Vapour permeability (μ):	650 (Standard UNI 8202/23a)



Fibreglass Mesh reinforcement in the Mapegum WPS.

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. 1mm 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 1mm, in order to form a consistent, flexible continuous coat. Make sure that there are no gaps caused by imperfections in the substrate.

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 D2 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**, special waterproof rubber strip, between the wall and the floor and between contiguous walls before applying **Mapegum WPS**.

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

Mapeband 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.

STORAGE

24 months in original packaging. Protect from frost.

- Do not apply **Mapegum WPS** on bitumen or asphalt membranes which could bleed oil or plasticisers.
- Do not use **Mapegum WPS** on surfaces which are immersed continuously in water, such as swimming pools, fountains, water tanks, etc. For these applications, use **Mapelastic** or **Mapelastic Smart**.
- 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.

If **Mapegum WPS** is applied as an anti-fracture membrane on a damaged substrate, we recommend embedding



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

Mapegum WPS



Applying Mapegum WPS with a brush



Spreading a coat of adhesive on Mapegum WPS



Laying glass mosaic



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. The usual precautions taken when handling chemical

products are recommended. The Safety Data Sheet is available upon request for professional users.

FOR PROFESSIONALS.

WARNING

While the indications and guidelines contained in this data sheet correspond to the company's knowledge and wide experience, they must be considered, under all circumstances, merely as an indication and subject to confirmation only after long-term, practical applications. Therefore, anybody who undertakes to use this product, must ensure beforehand that it is suitable for the intended application and, in all cases, the user is to be held responsible for any consequences deriving from its use.

All relevant references of the product are available upon request



BUILDING THE FUTURE

MAPEI GROUP CERTIFIED MANAGEMENT SYSTEMS (Quality, Environment and Safety)

MAPEI FRANCE	MAPEI INC - CANADA	RESCON MAPEI AS - NORWAY	MAPEI S.p.A. - ITALY	MAPEI CORP - U.S.A.	MAPEI FAR EAST Pte Ltd MAPEI MALAYSIA SDN BHD	MAPEI s.r.o. - CZECH REP.	
MAPEI FRANCE	MAPEI INC - CANADA	RESCON MAPEI AS - NORWAY	MAPEI S.p.A. - ITALY	MAPEI CORP - U.S.A.	MAPEI FAR EAST Pte Ltd MAPEI MALAYSIA SDN BHD	MAPEI s.r.o. - CZECH REP.	

www.mapei.com