

RAPP

Ultra-fast cementitious mortar for stopping water leakage



WHERE TO USE

Rapp is a cement-based mortar used to stop water permeation - including water under pressure.

Some application examples

- Sealing against water permeation between floors and walls below the water table.
- Temporary sealing of cracks in connection with injection.
- As an accelerating component in repair mortar.
- Temporary sealing of leaks in tunnels and construction projects.

TECHNICAL CHARACTERISTICS

Rapp is a ready-to-use pre-mixed mortar based on cement as the binding agent, special sealing fillers and additives for rapid solidification and curing, developed by MAPEI.

Rapp contains no chlorides.

When mixed with water, **Rapp** forms a smooth paste with thixotropic properties that binds within 30 - 60 seconds. Because of the rapid binding time, **Rapp** must be mixed in small portions. Sufficient hardness is achieved after 10 - 15 minutes to withstand moderate loads. Considerable heat is developed whilst curing, and cracks can form when it dries out.

Rapp therefore only provides a temporary solution if used on its own, able to hold water back until a more permanent seal or other measures have been implemented. Used for sealing leaks, e.g. in concrete, for rock injection, cable concrete and for installations.

RECOMMENDATIONS

- Do not add extra cement, lime or plaster to **Rapp**.
- Avoid exposing **Rapp** to sunlight before use.

APPLICATION PROCEDURES

Preparation of the product

Clean the area on which **Rapp** is to adhere thoroughly. Remove all loose material.

Installations

Rapp can be used for temporary retention and embedding of e.g. formwork, railings, guide rails, etc., until they can be permanently fixed.

Mixing

Wear rubber gloves. Mix small portions by hand, e.g. in a 2 litre plastic bucket. Pour 0.5 - 1 kg **Rapp** into the bucket. Add water and mix by hand to a thick paste. Approx. 0.4 litre water per kg **Rapp** gives a viscous mass. The mass will begin to harden immediately. Remove from the bucket and shape into ball. Once the ball is sufficiently firm (after 10 – 15 seconds), press and rub it into and around the leak site. Hold firmly in place by hand until it is hard enough to withstand any counter pressure. Remove any remaining hardened **Rapp** from the bucket by knocking the bucket hard against a firm.

Sealing

Rapp is used to seal water leaks in cracks and holes until permanent repairs can be made.

Sealing cracks by injection

Rapp is applied over cracks and mounts for injection nozzles and hoses before starting injection. If the surface is dry and **Rapp** is applied in a thin layer, it can crack. Cracks should therefore be sealed just before injection starts. If leaks occur during injection, seal them immediately with **Rapp**.

Rock injection

Rapp is used in addition to or to replace the use of sacking, wedges and plugs to immediately stop injection mass being forced out of e.g. cracks, around injection hoses, etc. By applying a thin layer, **Rapp** can resist relatively high pressure immediately. In the event of severely cracked rock, sealing with **Rapp** can be an alternative if injection with **Mauring** fails. Start at the outer edge and force water towards the injection pipes, which are kept open whilst sealing takes place.

CONSUMPTION

1.5 kg **Rapp** gives approx. 1 l of paste.

PACKAGING

Rapp is supplied in 25 kg sacks and 5 kg Alupack.

STORAGE

Rapp may be stored for 6 months for paper bags and 12 months for Alupack in its original packaging in a dry place.

SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

Instructions for the safe use of our products can be found on the latest version of the SDS available from our website www.mapei.no

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY	
Consistency:	powder
Colour:	grey
Density:	approx. 1200 kg/m ³
Solids content:	100 %

APPLICATION DATA (at +20°C - 50 % RH)

Mix ratio (weight):	approx. 1 kg Rapp to 0.4 - 0.5 l water
Mix ratio (volume):	approx. 5 parts Rapp to 3 parts water
Consistency:	thixotropic
Mix density:	approx. 1800 kg/m ³
Mix pH:	approx. 12
Temperature range for use:	from +5°C to +35°C
Application time:	< 1 minute

MIXED PROPERTIES (50 % water)

Flexural strength:	
0.5 hour:	0.1 MPa
28 days:	2.0 MPa
Compressive strength:	
0.5 hour:	3 MPa
3 hours:	4 MPa
24 hours:	6 MPa
7 days:	7 MPa
28 days:	10 MPa

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 web site www.mapei.no

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 effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at www.mapei.no

ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.

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