MAPECEM VR N

Moisture resistant, quick setting mortar for screeds with very low shrinkage for screeds in wet areas





DESCRIPTION OF THE PRODUCT

Mapecem VR N is a casting compound for wet rooms, with or without heating cables, where quick hardening is required.
Mapecem VR N is used on a substrate of concrete, plaster, wood, chipboard, and ceramic tiles.
Mapecem VR N may float on plastic film / membrane or have adhesion to the substrate. The casting mixture is suitable for the casting of inclining surfaces.
Mapecem VR N is CE marked and classified as CT-C30-F5 according to EN 13813.

TECHNICAL CHARACTERISTICS

Mapecem VR N is a fast-dry mortar intended for casting of floors in wet areas.
Mapecem VR N is laid out in thicknesses from 15 - 75 mm and may, independent of the thickness, be coated with an impenetrable membrane after a short waiting time.
Mapecem VR N is laid out in the same manner as a traditional casting mortar is laid out.

INSTRUCTIONS FOR USE

Preparation

The surface must be cleaned and be free of loose particles, dust, grease, water, etc. Weak and porous surfaces must be removed. Finally the substrate must be properly vacuumed. Ceramic tile and vinyl flooring must be matted and cleaned with **UltraCare HD Cleaner**.

Adhesion to the substrate

Fixed adhesion to the substrate: The surface may be pre-treated with a slurry consisting of 1 part **Planicrete**, 1 part water, and 8 parts by weight of **Mapecem VR N**. Use a rigid brush when applying. Vinyl flooring and tiles are primed with **Eco Prim Grip Plus**.
Mapecem VR N is laid out “wet-on-wet” onto the slurry/primer.

Floating floor

Mapecem VR N has a shrinkage which is far less than with traditional casting and can therefore be used as a floating floor.
Mapecem VR N is laid out on plastic film or membrane, like a regular screed, with a thickness of minimum 4 cm. When laying out the mortar on non-bearing surfaces, insulation, etc. the **Mapecem VR N** must be reinforced as with ordinary screeds.

Mixing

Smaller quantities can be mixed with a drill and whisk. For larger jobs, use a conventional mortar mixer. Only use clean water when mixing.
Mapecem VR N is carefully poured approximately 1.7 to 2.0 litres of clean water per 20 kg sack and vigorously mixed with a drill and whisk until all lumps are gone.

Laying of the compound

Mapecem VR N is spread out onto the substrate, well compacted, and processed using floating screeds and boards. Smoothing can be performed when the mortar has set. The fresh casting must be protected with plastic sheeting during the first 12 hours to reduce rapid drying. Do not add water to the mortar.

Drying

Mapecem VR N may be coated with impenetrable membrane after 24 - 72 hours. The temperature during application and drying must be above +5°C - +10°C on the floor.

CLEANING

Tools which have been used during the mixing procedure and spreading of **Mapecem VR N** can be washed off with water if it is done before the product hardens. Hardened mortar on tools can only be removed mechanically.

CONSUMPTION

Approx. 2.1 kg/m²/mm thickness.

PACKAGING

Mapecem VR N is delivered in 20 kg bags.

STORAGE

Mapecem VR N may be stored for 6 months if stored in a dry place and in its original packaging.

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	
Colour:	grey
Consistency:	powder
Dry solids content:	100 %
EMICODE:	EC1 Plus - very low emission

OPERATING CHARACTERISTICS (at +23°C - 50 % R.H.)	
Layer thickness per layer	from 15 - 75 mm
Recommended amount of added water:	1.7 - 2.0 litre/bag
Density:	2100 kg/m^3
Application temperature:	from +10°C to +25°C
Pot life:	approx. 20 minutes
Walkable after:	approx. 4 hours
Ready for coating/coverage after:	24 - 72 hours

FINAL PERFORMANCE	
Compressive strength (EN 13892-2) **- after 1 day:** **- after 28 days:**	 12 - 15 N/mm^2 25 - 30 N/mm^2
Compressive strength after 28 days (EN 13892-2):	5 N/mm^2
Shrinkage (EN 13454-2/EN 13872) (< 10 mm):	< 0.02 - 0.03 mm/m
Thermal conductivity in accordance with EN 12664:	1.10 W/mK
Fire resistance (EN 13501-1):	$A1_{FL}$

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.

Mapei AS

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