



奧迪美®

RM769

REPAIR MORTAR (WATERPROOF)

HIGH EARLY STRENGTH WATERPROOFING WALL & FLOOR MORTAR

PRODUCT DESCRIPTION

OPTIMIX RM769 REPAIR MORTAR (WATERPROOF) is a waterproof fast setting mortar designed for rapid return to service wall and floor rendering and levelling. Specially formulated to have an adjustable and versatile workability for easy screeding or high build rendering. The hardened render has excellent compressive strength, out-standing adhesion performance – even after aging and weathering – and enhanced water resistance to ensure long-term durability and stability of the render layers.

OPTIMIX RM769 REPAIR MORTAR (WATERPROOF) is also designed for use with EN12004 Class C2 adhesive requirements to ensure that the complete system from substrate to tiled surface achieves the same high standard.



TYPICAL USEAGE

- Rapid Return to Service Wet Area Renovations – Foot Traffic After 1 Hour
- External repairs and rendering onto concrete or block work wall
- Internal walls subject to dampness

FEATURES AND BENEFITS

- Fast Setting & Early Strength
- High Strength & Waterproof
- 10 – 25mm thick per layer
- Complies with HKHA GS2024 WSR.M060.1 and legacy GS 23.08(3)(g)
- Suitable for Installation In-line With EN13914
- Complies with BS8481 & EN998-1

TECHNICAL DATA

Product Characteristics	OPTIMIX RM769
Setting Time	~ 30 minutes
Compressive Strength at 2 hours (MPa)	> 5
Compressive Strength at 1 day (MPa)	> 20
Compressive Strength at 28 days (MPa)	> 45
Tensile Bond Strength at 2 hours (MPa)	~ 0.5
Tensile Bond Strength at 1 day (MPa)	~ 1.0
Tensile Bond Strength at 28 days (MPa)	> 1.0
Coutinho Ring @ 28 days (%)	No Cracks
ISAT Test @ 120 minutes (ml/m ² ·s)	< 0.005

Mixing	
Water Demand	3.00 – 4.5 L
Wet Density (kg/m ³)	~ 2,000

Packaging & Yield	
Coverage (kg/mm/m ²)	~ 2.00
Packaging	25 kg per bag
Shelf Life	6 months

Note: The above are typical laboratory test results and can vary slightly depending on the ambient and substrate conditions during application.



Environmental Data	
Volatile Organic Compounds (VOC)	≤ 10 g/L
Potential BEAM points	Product is manufactured within 800km of Hong Kong project sites
Packaging Composition	Paper bags incorporating 40% recycled paper

Testing Methods	
Setting Time	BS EN 196-3 : 2016 / ASTM C953
Tensile Adhesion Strength	HKHA MTS Part D cl. 2.1.14
Compressive Strength	HKHA MTS Part D cl. 2.1.1 / BS6319-2 : 1983
Countinho Ring (Shrinkage)	HKHA MTS Part D cl. 2.1.6
ISAT	BS1881 Part 208
VOC Content	USEPA Method 24

Note: The tests were performed according to the national standard or in-house modifications of the corresponding testing procedures.

Complied Standards	
HKHA General Specification	Section 23.08 3(g)(i)A1 / 24 WSR.M060.1.3 Waterproofing Screed Mortar
BS EN 998-1 : 2016	Specification for mortar for masonry. Rendering and plastering mortar.
ASD General Specification for Building 2017	
BS EN 8481 : 2006	Design, preparation and application of internal gypsum, cement, cement and lime plastering systems – Specification.
BS EN 13914-1 : 2016	Design, preparation and application of external rendering and internal plastering. External rendering.
BS EN 13914-2 : 2016	Design, preparation and application of external rendering and internal plastering. Internal plastering.



INSTALLATION GUIDE

(Refer to Method Statement for more details)

SURFACE PREPARATION

Substrate must be clean, free from loose particles, oil, grease and other contaminants.

It is recommended to pre-wet the substrate with potable water – surface should be damp with no standing or running water before application.

OPTIMIX RM769 will bond strongly to a well prepared substrate but for ultimate performance and additional protection against water ingress Optimix recommend applying onto a tacky or 'just dry' **OPTIMIX PROCRETE** or **OPTIMIX PE** bond coat.

(Refer to the relevant datasheets for more details)

MIXING

Mix one 25kg bag of **OPTIMIX RM769** dry powder with around 3.00 – 4.5 litres of potable water by using an electrical forced action mixer. Always use the minimum amount of water necessary to achieve the desired workability.

- Around 3.00 - 3.5 L will achieve a smooth mix with a render consistency
- Around 3.5 - 4.5 L will achieve a smooth flowable mix ideal for screeding application
- Do not exceed 4.5 L of water per 25kg bag

For easy mixing add the required amount of water to the mixer, begin mixing and simultaneously add the powder. Continue to mix for up to 3 minutes or until a lump-free homogeneous mix is achieved. The material is immediately ready for use and should be placed quickly before it loses workability or begins to set.

WORKING TIME

In normal conditions working time will be around 30 - 45 minutes after mixing but this can vary from as little as 20 minutes to as much as 1 hour depending on material temperature, ambient conditions, water temperature, water addition and mixing method.

(see limitations)

APPLICATION

As a render: **OPTIMIX RM769** should be applied between 10mm and up to around 25mm per layer. For application in excess of 25mm multiple layers are required; Initial layers should be left rough-finished as a key. Additional layers should be applied once the first layer has achieved sufficient strength to support the application, finishing and curing of subsequent layers.

As a screed: **OPTIMIX RM769** can be applied up to 50mm thick per layer to enable laying to fall.

FINISHING AND CURING

For best results, the top layer of **OPTIMIX RM769** should be struck off level as soon as possible after application, while the material is at its most workable. Finishing the surface as soon as possible will make the job easy for the worker, ensure the best bond performance and result in the best surface finish.

Finishing can be achieved using a wooden float to give a keyed surface or a steel trowel to achieve a smooth surface.

Special curing is not normally required but in instances of high temperatures or strong drying then the surface will benefit from a regular misting with water or the application of **OPTIMIX CURING COMPOUND**.

LIMITATIONS

OPTIMIX RM769 is rapid setting and achieves a high early strength. This necessarily limits the working time. If working in high temperatures consider mixing smaller quantities at a time or using cool water to help extend the working time. Ice water is not recommended.

HEALTH AND SAFETY

OPTIMIX RM769 is alkaline in nature and can cause irritations to persons with sensitive skin. Avoid inhalation of dust and contact with skin and eyes. Wear suitable protective gloves and masks while handling the product. If contact with eyes, rinse immediately with plenty of clean water and seek medical advice. This product is non-toxic and is not flammable.

STORAGE

Store the product in a cool and dry place with the original unopened bags on pallets with plastic wrapping. Protect from direct sunlight, rainfall and exposure to high humidity conditions. Avoid excessive stacking of pallets. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging and reduce shelf life.

ALTERNATIVE PRODUCTS

Other similar products in the Optimix range include:

- **RM725** Repair Mortar (HKHA Class 25)
- **RM740** Repair Mortar (HKHA Class 40)
- **RM780** Repair Mortar (Rapid Setting)



Important Note: The information contained herein is, the best of our knowledge, true and reliable and is supported by the present state of our knowledge. No warranty is given or implied in connection with any recommendations or suggestions made by us or our representatives as the conditions of use and any labour involved are beyond our control.



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