



奧迪美®

# RM700

## WINDOW FRAME GROUT

### WATERPROOF MORTAR FOR WINDOW FRAME SURROUNDS

#### PRODUCT DESCRIPTION

**OPTIMIX RM700 WINDOW FRAME GROUT** is a high quality polymer modified and shrinkage-compensated mortar with special additives to make it ideal for horizontal and vertical bedding of window frames.

The mortar is easy to apply and finish using hand tools and has great consistency for efficient gap infill or patch repair.

The low water demand and special additives provides high early strength, ensures good bond to the surrounding concretes and enhances water resistance to inhibit the movement of water.



#### TYPICAL USAGE

- Waterproof Grouting around Window and Door Frame Installations
- Patch repairing defects such as spalled concrete, voids and honeycombs
- Structural or cosmetic repair for vertical and overhead applications
- It is recommended to be used with **OPTIMIX PE Polymer Emulsion**

#### FEATURES AND BENEFITS

- Waterproof
- Easy to Mix and Apply
- Low Shrinkage
- Good Bond Performance
- High Early and Ultimate Strength
- High Build
- Increases Chloride & Carbonation Resistance
- Low VOC

## TECHNICAL DATA

Product Characteristics	OPTIMIX RM700
Compressive Strength at 28 days	~ 45 MPa
Flexural Strength at 28 days	> 6 MPa
Bond to Concrete at 28 days	~ 2.0 MPa
Linear Shrinkage	~ 0.15%
7d ISAT @ 60 minutes (Mean)	0.031 ml/m <sup>2</sup> /s
28d ISAT @ 60 minutes (Mean)	0.029 ml/m <sup>2</sup> /s
Thickness per Coat (Nominal)	5 – 25 mm

Mixing	OPTIMIX RM700
Water Demand	3.9 – 4.3 L
Wet Density	1,900 kg/m <sup>3</sup>

Packaging & Yield	OPTIMIX RM700
Yield	15 L
Packaging	25 kg per bag
Shelf Life	12 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	
Compressive Strength	BS 6319 : Part 2
Flexural Strength Test	BS 6319 : Part 3
Pull-off Test	HKHA/MTS (2000), Part D 2.1.15
Linear Shrinkage	HKHA/MTS (2000), Part D 2.1.21
ISAT	BS1881:pt 208:1996
VOC Content	USEPA Method 24



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



## **INSTALLATION GUIDE**

*(Refer to Method Statement for more details)*

### **SURFACE PREPARATION**

#### Window Frame Grouting

Window frames and surrounding concrete surfaces should be clean, dry and free from contaminants like oils and loose materials. Window frames should have an inert protective layer of plastic or tape to prevent scratches during installation. Metal mountings and similar fixtures into the concrete should be treated with a layer of **OPTIMIX PE POLYMER EMULSION** cement slurry primer (PE: Cement = 1:1.5) to protect the fixture, improve the bonding and reinforce waterproofing performance around the fixtures. For best results Optimix recommend also applying the slurry primer onto concrete surfaces which will receive the **RM700 WINDOW FRAME GROUT**. The grouting works should be completed before the slurry primer dries fully.

#### Concrete Repair

Break out the repair area and saw cut the perimeter at right angle to the face of the concrete to a depth of at least 10mm to avoid feather edges. Clean the exposed concrete surface and remove dust and loose particles. Expose and remove all loose rust from corroded reinforcement. Apply **OPTIMIX PE POLYMER EMULSION** cement slurry primer (PE: Cement = 1:1.5) to the cleaned reinforcement and allow to dry.

Concrete substrate should be damp or saturated surface with no standing water.

For best results apply a thin layer of **OPTIMIX PE POLYMER EMULSION** cement slurry primer (PE: Cement = 1:1.5) onto the concrete surface to enhance the bonding performance. Repair mortar should be applied onto the primed area before the primer dries out.

### **MIXING AND APPLICATION**

Mix one bag of **OPTIMIX RM700 WINDOW FRAME GROUT** dry powder with 3.9 - 4.3L potable water. Mechanical mixing using a forced action mixer or a slow speed drill fitted with a suitable paddle is recommended. Mix the mixture for about 5 minutes or until a lump-free homogenous mix is achieved. The grout should be placed and compacted onto the prepared substrate by trowel or gloved hand. Care and effort should be used to compact the grout into the recesses of the window frame, into the texture concrete and to properly encapsulate any fixtures or protrusions. Depending on the substrate conditions including the density of the exposed reinforcement, the mortar may be applied to build up the required thickness under a single application. If sagging occurs or thicker section is required, it should be built up in multiple layers as appropriate.

### **CURING**

On completion of the surface finishing, the exposed mortar surface should be cured immediately by the use of **OPTIMIX CURING COMPOUND** or other appropriate means to prevent rapid drying out.

### **LIMITATIONS**

**OPTIMIX RM700 WINDOW FRAME GROUT** is an excellent grout mortar and a good general purpose repair mortar but for critical, high build and overhead structural repairs **OPTIMIX RM725, RM740, RM770** and **RM780** products should be considered first. If in doubt, contact Optimix Technical Department.

## HEALTH AND SAFETY

**OPTIMIX RM700 WINDOW FRAME GROUT** 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 in the original unopened bags on pallets with plastic wrapping under dry conditions. Store out of direct sunlight, clear of ground on pallets protected from rainfall. Avoid excessive stacking of pallets. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

## ALTERNATIVE PRODUCTS

Other products from the Optimix range which can be used for patch repair and grouting include:

- **RM725** Repair Mortar (HKHA Class25)
- **RM740** Repair Mortar (HKHA Class40)
- **RM770** Repair Mortar (Sprayable)
- **RM780** Repair Mortar (Rapid Setting)
- **NS612** Non-Shrink Grout



**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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