

M610 WR

Water-repellent, Cementitious, One-coat Render (2in1)

Description

M610 WR is a water-repellent, cementitious, one-coat render, which replaces the base coat and finishing renders (2in1).

It consists of high-quality white cement, selected granulometric gradation, limestone sand (up to 1.4mm) and special organic improvement additives. It provides high water repellency, excellent adhesion, workability and mechanical strength. It is characterized by its high thixotropy, with no sagging even in large thicknesses, on walls and ceilings. No lime in its composition. For its use only the addition of water is required.

It is classified as mortar type **OC CS III W_c2** according to EN 998-1.

Field of Application

M610 WR can be used as render mortar, on walls & ceilings, in a thickness of 3-30 mm (locally up to 50 mm). It can replace the base coat and finishing coat renders (2in1).

Ideal product when high water repellency is required (e.g. buildings: with high levels of damp, seaside, with problems of rising damp, etc.). Suitable for high productivity projects, with reduced time, application cost and material waste. It offers flat surface, with excellent & stable quality, superior to mortars manually produced on site.

Also suitable for repairs to fill imperfections and holes resulting from plumbing, electrical, carpentry, frames installation works etc. on walls and ceilings.

Suitable for indoor & outdoor usage.

Technical Data

Technical Characteristics

Appearance	Cementitious powder
Colour	Off-white
Maximum grain size	1,4mm
Apparent density of dry mortar	1,60±0,05kg/cm ³

Application Properties@ 23oC / 50% RH

Mixing ratio	5 - 5,5 lt water per 25kg	
Apparent density of dry mortar of fresh mortar	1,75±0,05 kg/cm ³	EN 1015-6
Application temperature	5°C-35°C	
Workable time	45min @ 20°C	
Application thickness per layer	3 – 30mm	
Initial setting time	24 hours	
Consumption	1,4 – 1,5 Kg/m ² /mm	

Performance

Compressive strength	≥3,5 N/mm ²	EN 1015-11
Flexural strength	≥1,5 N/mm ²	EN 1015-11
Adhesion	≥0,6 N/mm ² FP:B	EN 1015-12
Capillary water absorption	<0,2 kg/m ² .min ^{0,5}	EN 1015-18
Water vapour permeability coefficient, μ	≤15	EN 1015-19
Thermal conductivity (λ10, dry)	0,61 W/mK	EN 1745
Reaction to fire	Class A1	EN 13501-1

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Directions for Use

1. SUBSTRATE – PREPARATION: The application substrate should be clean, solid, free of loose parts, dust, oil, tar, lime, etc. Before application, light soaking the surface with water, without formation of standing water. On substrates made of: concrete, brick, stone, etc., it is recommended to use bonding sputterdash mortar **Π220** or **Π240** by **INTERMIX**, depending on each application. In cases of very absorbent substrates (e.g. porous concrete, old plasters/renders, etc.) it is recommended to precede the priming with a micromolecular, water-based, impregnation,

acrylic primer, diluted appropriately so that it penetrates the surface, avoiding film formation on the substrate.

2. MIXING: In a clean container with pure water, gradually add the package content, under constant stirring with a low-speed electric mixer (**6-6.5 lt water** per **30Kg M610 WR**). Mix carefully until the mixture becomes homogeneous, without lumps and taking care not to leave any amount of package content on the walls or bottom of the container. The mixture is ready to use for the next 45 minutes at 20°C.

3. APPLICATION: Apply **M610 WR** to the surface using a suitable metal spatula or trowel to a thickness of **3 – 30mm (locally up to 50mm)**. To achieve leveling and flatness of the surface, suitable application profiles can be used, where the gap is filled with the same product, after their removal. At building corners, appropriate corner profiles (e.g. from stainless steel, galvanized, PVC, etc.) can be placed with the same mortar. Smooth the surface with a suitable sander, polystyrene block, sponge or spatula, depending on the desired effect, and after the material begins to dry sufficiently. It is recommended to use reinforcement, anti-alkaline, fiber mesh in joints of different materials (e.g. brick with concrete etc.) or above thermal insulation boards (e.g. on beams, columns etc.), which is placed in the upper 1/3 of the product application thickness and at least 10cm on either side of the joints, to avoid any cracking due to uneven micro-movements of the substrate. In case of using the material with the help of mechanical equipment (pumps etc.), please contact with **Technical Support of INTERMIX**.

4. CLEANING OF TOOLS:

Remove as much product as possible from tools while still fresh and clean using water. When the material hardens it is removed by mechanical means.

Important Notes

Do not apply at substrate & environment temperatures below +5°C and above +35°C.

Do not apply in case of impending rain for at least the next 24 hours after application.

It is recommended to protect the surfaces from strong air currents & direct, intense solar radiation using protective covers.

Do not add additional water and/or cement, gypsum, lime, or other materials that may affect the properties of the mortar.

Lightly wet the application surface periodically during periods of high temperatures (summer months).

Consumption

Indicative consumption: **1,4 – 1,5 Kg/m²/mm**.

It depends on the type of substrate, the method, the tools and the application conditions.

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Packaging - Colors

Available in 30Kg paper bag package (pallet of 48 bags, 1440 Kg), in white color.

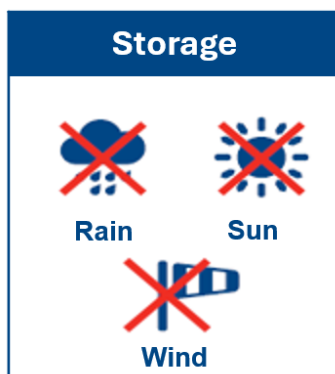
Storage


For 12 months from the date of production, in sealed, original packaging, at a cool, dry and well-ventilated place.

Notes

INTERMIX bagged products help keep the environment clean.

- They reduce waste and material losses
- They reduce environmental pollution.
- Their packaging is fully recyclable.



	
TITAN CEMENT SA 22A Halkidos Str., 111 43, Athens, Greece 24	
EN 998-1:2016 DoP No: INTERMIX 33 One-coat rendering mortar for external use (OC/CS III)	
Reaction to fire:	Euroclass A1
Capillary water absorption:	W _c 2
Water permeability after weathering cycles:	≤0,4 ml/cm ² after 48 h
Water vapour permeability coefficient (μ):	μ≤15
Thermal conductivity(λ10, dry):	0,61 W/mK
Adhesion:	≥0,2 N/mm ² FP: B