

WTP MOTA

CEMENT-BASED WATERPROOFING MORTAR

DIRECT-TO-BRICK · PREMIUM GRADE

PRODUCT DESCRIPTION

WTP MOTA is a ready-mixed cementitious waterproofing mortar, gauged with water only. It is rendered **straight onto fired clay brickwork** with no base render — render and waterproofing in **one application** — for **external walls exposed to wind-driven rain** and **water-immersed elements**. **WTP MOTA** is the **premium grade** of the BUMA-MOTA line; the standard grade is **IWR**. Free of corrosive substances and soluble salts.

LOW VOC

CLASSIFICATION · CERTIFICATION
EN 998-1:2016 type OC · CS IV · W2 · SGBC & VGBC member

QUICK SPECIFICATIONS

PACKAGING	25kg/bag
COLOUR	Grey
LINE POSITION	Premium (standard: **IWR**)
SUBSTRATE	Brick · Concrete block · Concrete
BASE RENDER	Not required
WATER MIXING RATIO	3.75 - 4.00L per 25kg bag
COVERAGE	~2.0kg/m² per 1mm
RECOMMENDED THICKNESS	12mm/layer · Max 48mm
CLASSIFICATION	EN 998-1:2016 · OC · CS IV · W2
SUBSTRATE TEMPERATURE	8 - 35°C
CURING	No curing required
SHELF LIFE	06 months (unopened bag)
STORAGE CONDITIONS	Cool, dry, well-ventilated place



ILLUSTRATIVE IMAGE **WTP MOTA** rendered straight onto a fired clay brick wall, with no base render



ILLUSTRATIVE IMAGE The external wall after rendering. Rainwater runs off the surface

USES

- Render and waterproofing in one, for **external walls exposed to wind-driven rain** — townhouses, low-rise buildings, boundary walls
- **Rendered straight onto fired clay brickwork**, no base render: one layer that renders and waterproofs
- **Water-immersed and hydrostatic-pressure elements:** Roof slabs · Basement walls · Negative-side waterproofing
- A **seamless coating with no joints** — unlike a bonded membrane
- **Other suitable substrates:** Pressed concrete block · Concrete · Cementitious render (bonding coat required — see Substrate requirements)

SUBSTRATE REQUIREMENTS

- **Brick wall:** fully built, joints filled, free of dust, dirt, oil, grease, moss and mould; chip off excess mortar and burrs
- **Dampening:** spray the brickwork with water before rendering; leave no standing water
- **Cracks in the substrate:** make good completely before rendering
- **Bonding coat:** required on pressed concrete block or concrete; not required when rendering straight onto fired clay brick

MIXING

- Water per **01 bag of 25kg: 3.75 - 4.00 litres**
- Pour the water in first, then add the powder; mix with a slow-speed stirrer until homogeneous
- Allow the mix to stand for **5 minutes** then remix
- Pot life of the mixed mortar: **30 - 45 minutes**

APPLICATION & CURING

- Throw the mortar onto the brick face with a **mason's trowel**, level it with a **float**
- **12mm** per layer, maximum total thickness **48mm**
- **Water-immersed elements:** total thickness **at least 40mm**
- Drying time per layer: **15 - 20 hours**, depending on ambient conditions
- **Curing:** no curing required
- The product bonds strongly even to metal — wash tools while the mortar is still fresh; once hardened it can only be removed mechanically

TECHNICAL DATA

Property	Standard	Result
Compressive strength at 28 days — determines the CS class	TCVN 3121-11:2022 (based on EN 1015-11:2019)	≥ 15.0MPa · CS IV
Capillary water absorption coefficient — determines the W class	TCVN 3121-18:2022 (based on EN 1015-18:2002)	≤ 0.20kg/(m²·min$^{0.5}$) · W2
Bond strength on a brick substrate	TCVN 3121-12:2022 (based on EN 1015-12:2016)	≥ 0.5MPa
Bulk density of the hardened mortar	TCVN 3121-10:2022	~2000kg/m³
Water permeability after weathering cycles	EN 1015-21:2002	< 1ml/cm² after 48 hours
Resistance to wind-driven rain — coating on masonry	ASTM D6904-03(2022)	Pass
Resistance to hydrostatic pressure — coating on masonry	ASTM D7088-17	Pass — 5m head of water

The above results and recommendations are based on laboratory testing; actual performance may vary depending on the application method and specific site conditions

SAFETY INFORMATION

- **Skin and eyes:** the product contains alkaline Portland cement; contact with perspiration or body fluids may cause skin irritation, mild burns or allergic reaction in sensitive individuals. Both dry and wet cement can cause serious eye injury on direct contact
- **Eye contact:** rinse immediately under gently running clean water for 10 - 15 minutes without rubbing the eye; if pain persists, seek medical attention at the nearest facility
- **Crystalline silica dust:** do NOT swallow the product. Crystalline silica dust may cause lung disease or cancer — wear a dust mask or respirator wherever product dust is present
- **Protective equipment:** Gloves · Safety goggles (when mixing) · Fine-dust mask (when mixing) · Protective clothing
- **Working environment:** work in a well-ventilated area, away from confined spaces, children and pets; avoid inhaling cement dust while mixing the dry material
- **Surplus material:** reseal the bag tightly after use to prevent moisture pick-up. Do not dispose of surplus material down drains — it may cause blockages; allow it to harden and dispose of it as construction waste
- Consult the **Safety Data Sheet (SDS)** latest edition on the official BUMATECH website, or contact our technical department

PRECAUTIONS & DISCLAIMER

- Always carry out a trial application on a small area before full-scale work, to assess adhesion, coverage and compatibility with the substrate under actual site conditions
- Do not add cement or sand to the product — it is factory-batched, and adding other materials alters the mix design and voids the declared performance figures
- Do not apply when rain is imminent, in harsh sun or in strong wind; shield the freshly rendered surface
- For **hydrostatic-pressure and negative-side waterproofing** elements: apply to the separate instructions of the BUMATECH technical department; the number of coats and total thickness differ from those for vertical walls
- Do NOT swallow the product. Crystalline silica dust may cause lung disease or cancer — a dust mask or respirator must be worn wherever product dust is present
- The figures in this document are established by laboratory testing under standard conditions; actual values vary with temperature, humidity, accompanying materials, application method and workmanship. It is the user's responsibility to verify suitability for the intended use
- BUMATECH accepts no liability for loss arising from use outside the intended purpose, application contrary to these instructions, or combination with incompatible materials not confirmed in writing; we reserve the right to update technical information without prior notice. Check the latest TDS edition on our website before each project

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WTP MOTA
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