

IWR

READY-MIXED MASONRY & RENDERING MORTAR

WATERPROOF · MOISTURE RESISTANT

PRODUCT DESCRIPTION

IWR is a ready-mixed mortar of Portland cement, selected aggregates and a powdered water-repellent polymer additive. Gauged with water it produces a waterproof, moisture-resistant mortar whose compressive, flexural and bond strengths are superior to conventional site-batched mortar. **IWR** is a **preblended dry mortar mix to ASTM C1714/C1714M-26**, classified **Type S to ASTM C270-26** and **WR — water-repellent** to ASTM C1384-23.

QUICK SPECIFICATIONS

PACKAGING	25kg/bag
COLOUR	Grey
WATER MIXING RATIO	3.38 - 3.63L per 25kg bag
COMPRESSIVE STRENGTH AT 28 DAYS	≥ 10.0MPa
BOND STRENGTH	≥ 0.5MPa
COVERAGE	~0.7m²/bag at 20mm thickness
CLASSIFICATION	ASTM C1714/C1714M-26 · C270-26 Type S · C1384-23 Type WR
WATER ABSORPTION	≤ 5%
DRYING TIME PER 10mm LAYER	02 - 03 hours
SUBSTRATE TEMPERATURE	8 - 35°C
CURING	No curing required
MESH REINFORCEMENT	Where the mortar layer exceeds 10mm
SHELF LIFE	06 months (unopened bag)
STORAGE CONDITIONS	Cool, dry, well-ventilated place



ILLUSTRATIVE IMAGE Applying **IWR** water-resistant render to an external wall



ILLUSTRATIVE IMAGE External wall dry after rainfall

USES

- Used as **masonry mortar, render and repair mortar** , for interior and exterior work wherever waterproofing and moisture resistance are required
- **Suitable substrates:** Concrete · Pressed concrete block · Fired clay brick

SUBSTRATE & BONDING COAT

- **Concrete:** sound and free of dust, grease, laitance, contaminants, curing compounds and mould-release oil
- **Cracks:** repair by injection with the epoxy product BUMA-SP Bond 81 before application
- **Roughening:** mechanically roughen to ICRI CSP 2 - 3 (grinding, high-pressure water jetting, light sandblasting, scabbling, etc.); minimum substrate bond strength 1.5MPa to ASTM C1583/C1583M-25
- **Bonding coat:** required on pressed concrete block or concrete — use BuMaLATEX mixed with cement; not required when rendering straight onto fired clay brick
- **Pressed concrete block:** use steel mesh or BuMaMESH 70 / BuMaMESH 150 between coats where the render is thicker than 10mm

MIXING

- Mix **01 bag (25kg)** of **IWR** with **3.38 - 3.63L** clean water
- One bag covers approximately **0.7m²** at 20mm thickness
- The mixing ratio may vary with the finishing method used

APPLICATION & CURING

- Use a wooden float or plastering trowel to apply, level and finish the mortar
- Each finished 10mm layer requires **02 - 03 hours** to dry, depending on ambient conditions
- Multi-layer application: the previous layer must be dry before the next is applied
- Suitable spray equipment may be used — verify suitability before use
- **Curing:** no curing required

TECHNICAL DATA

Property	Standard	Result
Water retention	ASTM C1384-23 ASTM C1506-24	≥ 85% (requirement ≥ 75%)
Compressive strength at 07 and 28 days	ASTM C1384-23 ASTM C349-24	≥ 90% (requirement ≥ 80%)
Air content	ASTM C1384-23 ASTM C185-20	≤ 10% (requirement ≤ 15%)
Water absorption	ASTM C1384-23 ASTM C1403-22a	≤ 5% (requirement ≤ 50%)

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 **IWR**
- Mortar layers thicker than 10mm should be reinforced with steel mesh or alkali-resistant glass-fibre mesh BuMaMESH 70 / BuMaMESH 150
- 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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