

Sc 500

READY-MIXED DRY MORTAR
GRADE 500 · 50.0MPa

PRODUCT DESCRIPTION

Sc 500 is a factory-packaged ready-mixed mortar composed of Portland cement, selected aggregates and synthetic polymer additives. It is designed to be gauged with water or with BuMaLATEX / LATEX SP to produce a mortar whose flexural strength and adhesion are superior to conventional site-batched mortar. The minimum compressive strength at 28 days is 50.0MPa. The product is used as a floor screed for heavy-duty applications.

QUICK SPECIFICATIONS

PACKAGING	25kg/bag · 50kg/bag
COLOUR	Grey
WATER MIXING RATIO	25kg bag: 3.13 - 3.38L 50kg bag: 6.25 - 6.75L
COVERAGE	One 25kg bag yields 12.5 - 13.0 litres of mortar
COMPRESSIVE STRENGTH AT 28 DAYS	≥ 50.0MPa
FLOWABILITY	175 - 205mm
MIXING LIQUID IN PLACE OF WATER	BuMaLATEX / LATEX SP
DRYING TIME PER 10mm LAYER	02 - 03 hours
SUBSTRATE TEMPERATURE	8 - 35°C
CURING	Mist-cure for at least 7 days
MESH REINFORCEMENT	Where the mortar layer exceeds 2cm
SHELF LIFE	06 months (unopened bag)
STORAGE CONDITIONS	Cool, dry, well-ventilated place



ILLUSTRATIVE IMAGE Sc 500 screed laid in a heavy engineering workshop



ILLUSTRATIVE IMAGE Finished workshop floor carrying machine-tool bases

USES

- Suitable for use as **masonry mortar, render and repair mortar**, for interior and exterior work
- **Suitable substrates:** Concrete · Pressed concrete block · Fired clay brick
- Mix with BuMaLATEX / LATEX SP in place of water where higher adhesion and flexural capacity are required

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 slurry:** apply a bonding coat before rendering — use BuMaLATEX mixed with cement
- **Pressed concrete block:** apply a bonding coat before rendering; use steel mesh or BuMaMESH 70 / BuMaMESH 150 between layers where the render is thicker than **2cm**

MIXING

- Add water to the mixer: **3.13 - 3.38L** per 25kg bag · **6.25 - 6.75L** per 50kg bag
- Add the mortar to the mixer and mix to a uniform consistency for **5 - 10 minutes**

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:** mist the mortar surface with water for at least **7 days** from the time of application

TECHNICAL DATA

Property	Standard	Result
Flowability	TCVN 3121-3:2022	175 - 205mm
Compressive strength after 28 days	TCVN 3121-11:2022	≥ 50.0MPa
Chloride ion content	TCVN 3121-17:2022	< 0.1%

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
- Mortar layers thicker than 2cm should be reinforced between layers 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 declared values 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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