

PATCH 60

VERY HIGH STRENGTH REPAIR MORTAR
60MPa · LOAD-BEARING STRUCTURES

PRODUCT DESCRIPTION

PATCH 60 is a very high strength repair mortar for structural work with the most demanding requirements for strength and durability: heavily loaded elements, surfaces subject to abrasion, and aggressive environments. It develops strength rapidly, is non-shrink and highly adhesive, allowing the structure to be returned to service early. For ordinary structural work use PATCH 40; for non-structural surface defects use PATCH 20.

QUICK SPECIFICATIONS

PACKAGING	25kg/bag
COLOUR	Grey
WATER MIXING RATIO	5.00 - 5.25L per 25kg bag
COVERAGE	One 25kg bag yields 13 - 14 litres of mortar
MINIMUM THICKNESS	5mm per layer
COMPRESSIVE STRENGTH AT 28 DAYS	≥ 60.0MPa
BOND STRENGTH	≥ 1.5MPa
MIXING TIME	6 - 8 minutes
SUBSTRATE TEMPERATURE	8 - 35°C
SHELF LIFE	06 months (unopened bag)
STORAGE CONDITIONS	Cool, dry, well-ventilated place



ILLUSTRATIVE IMAGE Repairing a load-bearing structure with PATCH 60



ILLUSTRATIVE IMAGE Bridge and port structures after completed repair

USES

- Repair of **load-bearing structures with demanding requirements**: beams, columns and slabs in transport infrastructure and heavy industry
- Repair of **structures subject to abrasion and aggressive environments**: marine port structures, chemical plants, forklift and truck traffic areas
- Repair of **high-strength** precast concrete units
- **Benefits:** Very high strength · Rapid strength development · Non-shrink · High adhesion · Early return of the structure to service

SUBSTRATE REQUIREMENTS

- **Substrate temperature:** from **8°C to 35°C**
- **Cleaning:** the entire surface must be sound and clean, free of grease, paint, curing compounds and other contaminants
- **Reinforcement:** clean back to bright steel before patching — never patch over rusted reinforcement
- **Dampening:** dampen the substrate with water; remove all excess water before patching — compressed air may be used to blow off unabsorbed water for the best result

MIXING

- The product **must be machine-mixed**, using a mixer or purpose-built equipment
- Pour **5.00 - 5.25L** water into the mixing drum
- Slowly add the powder component and mix at low speed, **300 - 500rpm**, until uniform
- Continue mixing for **6 - 8 minutes** until a plastic, uniform mix is obtained

APPLICATION

- Use **a steel trowel or spray equipment** to trowel or spray **PATCH 60** into the area to be repaired
- Level and re-finish the surface with a steel trowel
- 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 after 1 day	ASTM C349-24	≥ 22.5MPa
Compressive strength after 3 days		≥ 30.0MPa
Compressive strength after 7 days		≥ 45.0MPa
Compressive strength after 28 days		≥ 60.0MPa
Flexural strength after 28 days	ASTM C348-21	≥ 9.0MPa
Adhesion strength to concrete	ASTM D7234-21	≥ 1.5MPa

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
- **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 admixtures to the product
- Minimum application thickness is 5mm for a single layer
- Clean reinforcement back to bright steel before patching — patching over rusted steel causes the repair to debond later
- Apply only when the substrate temperature is between 8°C and 35°C
- Do NOT swallow and avoid inhaling product dust; wear a dust mask wherever product dust is present. Keep out of reach of children
- 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

BUMATECH CO., LTD

Head Office: 154/1/5 Cong Lo, Tan Son Ward, Ho Chi Minh City
Office: 91 Hoang Bat Dat, Tan Son Ward, Ho Chi Minh City
Factory: 820 Ap Chanh, Duc Lap Commune, Tay Ninh Province

TECHNICAL 0979 793 804
SALES 0914 765 778
bumagreen@bumatech.com.vn
www.bumatech.vn

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