

**QD-007**

Sealing Mortar

for prefabricated buildings · high bond strength · rapid hardening

1 · Scope of Application

Mainly used for chamber compartment sealing of prefabricated components in assembled concrete structures, wall panel joints, and local defect repair.

2 · Product Features

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| ① High bonding strength | ② Excellent thixotropy — sag resistant |
| ③ Rapid hardening | ④ Micro-expansion property |
| ⑤ Effectively prevents grout leakage during sleeve grouting | ⑥ Ensures solid and full grouting |

3 · Executive Standards

- **JC/T 2580-2020** — *Sealing Mortar for Prefabricated Buildings*
- **GB/T 50448-2015** — *Technical Code for Application of Cementitious Grout*

4 · Technical Specifications

Testing Item	Condition / Age	Type I Indicator	Type II Indicator
Consistency (mm)	Initial	110 – 170	110 – 170
Compressive Strength (MPa)	2h / 4h	≥ 20	≥ 15
Compressive Strength (MPa)	1d	≥ 40	≥ 30
Compressive Strength (MPa)	28d	≥ 60	≥ 50
Flexural Strength (MPa)	28d	≥ 7.0	≥ 6.0
Bond Strength with Concrete (MPa)	28d	≥ 1.5	≥ 1.2
Vertical Expansion Rate (%)	3h	≥ 0.02	≥ 0.02
Vertical Expansion Rate (%)	24h – 3h difference	0.02 – 0.50	0.02 – 0.50
Chloride Ion Content (%)	—	≤ 0.03	≤ 0.03

Testing Item	Condition / Age	Type I Indicator	Type II Indicator
Bleeding Rate (%)	—	0	0

5 · Application Methods & Precautions

1 Substrate Preparation

Before use, the construction substrate must be cleaned to ensure it is free of dust or other debris; the surface should also be pre-wetted, though care must be taken to ensure no standing water remains.

2 Mixing

Place the product into a mixing container and add the mixing water according to the recommended ratio. It is suggested to mix at a low speed for 2 minutes, followed by mixing at a high speed for another 2 minutes, until the mixture is uniform.

3 Application

Once the mortar mixing is complete, apply it evenly to the designated construction area using a trowel. The application process should be continuous, and the time taken for troweling should be minimized as much as possible.

4 Curing & Protection

Three hours after the mortar application is finished, the surface should be sprayed with water to facilitate moist curing. If the ambient temperature drops below 5°C, thermal insulation measures must be implemented for curing; in windy weather, the surface should be covered to provide protection.

6 · Packaging & Storage

- **Packaging:** Recyclable sealed bags, available in 25 kg or 50 kg units.
- **Storage:** Store in a dry, well-ventilated area. Keep off the ground on pallets and cover with plastic sheeting to protect from direct sunlight and moisture.
- **Shelf Life:** 6 months. Products exceeding this period must be re-tested and verified compliant before use.

Hubei Qiandao New Materials Co., Ltd. · Technical Data Sheet · QD-007 (v2.0)

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All information is subject to standard quality control. For project-specific guidance, contact our technical team.