



Polymer-Modified Cement Grout

early strength · high strength · micro-expansion · self-leveling

1 · Product Description

This is a high-performance polymer-modified cement-based grouting material. Formulated with special cement, refined quartz sand and compound polymer-modified functional admixtures, it delivers excellent properties including early strength, high strength, micro-expansion, zero shrinkage and self-leveling capability. It features distinct advantages in long-term volume stability, frost resistance, fatigue resistance and other durability indicators. It is widely used for grouting construction in various projects, as well as anchoring of all kinds of equipment foundations.

2 · Key Features

- ① High early strength and ultra-high ultimate strength
- ② Micro-expansion with zero shrinkage
- ③ Self-leveling capability for easy placement
- ④ Excellent long-term volume stability
- ⑤ Superior frost resistance and fatigue resistance
- ⑥ Non-bleeding and non-segregating

3 · Technical Parameters

Test Items	Condition / Age	Performance Specification
Truncated Cone Fluidity (mm)	Initial	≥ 290
Truncated Cone Fluidity (mm)	30 min	≥ 260
Compressive Strength (MPa)	1d	≥ 20
Compressive Strength (MPa)	3d	≥ 40
Compressive Strength (MPa)	28d	≥ 60
Vertical Expansion Rate (%)	3h	0.1 – 3.5
Vertical Expansion Rate (%)	24h – 3h difference	0.02 – 0.50
Chloride Ion Content (%)	—	≤ 0.1
Water Bleeding Rate (%)	—	0

4 · Application

- Grouting of large equipment and precision anchor bolts
- Secondary grouting of machine bases
- Rapid repair of bolt holes, road paving, and road sleepers
- Secondary grouting of steel structures and concrete
- Concrete repair and reinforcement
- Grouting and anchoring during installation of special precast concrete components, stairs, and balconies in prefabricated buildings

5 · Usage Instructions

1 Substrate Preparation

The surface of the equipment foundation must be clean and free of debris such as broken stones, laitance, dust, oil stains and release agents. Fully moisten the foundation surface 24 hours before grouting, and remove accumulated water 1 hour prior to operation.

2 Mixing

Use an electric mixer at the construction site to stir until the slurry is homogeneous. Let the mixed slurry stand for 2 to 5 minutes before use.

3 Grouting Placement

Perform grouting from one side only until the slurry overflows from the opposite side for effective air venting. Do not grout from all sides simultaneously.

4 Layer Thickness & Vibration

The thickness of each grout layer shall not exceed 100 mm. Vibration is strictly prohibited during grouting. Bamboo strips may be used for flow guidance when necessary.

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-60 (v2.0)

qdnewmaterial.com | qdmaterials.com | qdmaterials888@gmail.com

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