SINO-SINA Building Materials Co., Ltd.
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CBGM Rock Bolt Grout – 85 / 100

CBGM Rock Bolt Grout is a high-performance, non-shrink cementitious grout specifically engineered for rock bolt anchoring in tunnels, mines, slopes, and underground structures. It is formulated to deliver stable pumpability, complete encapsulation, and long-term bond reliability under confined borehole conditions. Two strength grades are available to meet different design requirements while maintaining identical workability and stability characteristics.

Design Philosophy

The product is designed based on real rock bolt installation conditions rather than laboratory-only parameters. Key performance objectives include zero bleeding under hydrostatic pressure, resistance to segregation in inclined or overhead boreholes, and consistent early strength development for effective ground support.

Key Features

- Dedicated cementitious grout for rock bolt anchoring systems
- Very high flowability for long and narrow boreholes
- Zero bleeding and excellent segregation resistance
- Rapid early strength gain for early load transfer
- High ultimate compressive strength up to 100 MPa
- Controlled micro-expansion to compensate for shrinkage
- Low chloride ion content suitable for steel-reinforced structures

Typical Applications

- Rock bolt installation in tunnels, caverns, and underground chambers
- Ground support systems in mining operations
- Rock and soil anchoring for slopes and retaining structures
- High-load anchoring systems requiring long-term durability

Technical Properties

Property	Condition	CBGM-85	CBGM-100
Flowability (mm)	Initial	≥ 300	≥ 300
	30 min	≥ 260	≥ 260
Compressive Strength (MPa)	1 day	≥ 35	≥ 35
	3 days	≥ 60	≥ 60
	28 days	≥ 85	≥ 100
Vertical Expansion (%)	3 h	≥ 0.02	≥ 0.02

	24 h – 3 h	0.02 – 0.50	0.02 – 0.50
Chloride Ion Content (%)	—	≤ 0.03	≤ 0.03
Bleeding Rate (%)	—	0	0

Packaging & Storage

- Packaging: 25 kg bags (or as supplied)
- Storage: Store in a dry, ventilated place, protected from moisture
- Shelf Life: 6 months in original sealed packaging

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