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CBGM Marine Anti-Corrosion Non-Shrink Grout

Cementitious, shrinkage-compensated grout engineered for chloride & sulfate exposure in coastal and marine infrastructure.

This marine-grade grout is designed for coastal structures where chloride ingress and sulfate attack accelerate deterioration. CBGM provides high flow and early strength while focusing on durability indicators (KS grade and low chloride ion penetration).

Quick Facts
Product type: Cementitious non-shrink grout
Models: CBGM-1 / CBGM-2 / CBGM-3 / CBGM-4
Sulfate resistance: KS ≥ 150 (all models)
Chloride permeability: ≤ 500 C (CBGM-2/3/4)
Verified result: 261 C (CBGM-2 test)
Standards (ref.): GB/T 50448, GB/T 50082, JC/T 1011

Key Benefits

- High flow for efficient filling of base plates, anchor pockets and tight formwork.
- Shrinkage-compensated behavior helps reduce cracking risk and improves bearing contact.
- Enhanced durability against sulfate attack and chloride ingress for coastal structures.
- Model options (I–IV) to match different placement methods and section thickness.

Typical Applications

- Coastal bridges, ports, piers, breakwaters and seawalls
- Offshore and near-shore foundations (non-acidic environments)
- Anchor bolt grouting, base plates, bearing seats and precast connections
- Salt-alkali soil infrastructure and coastal industrial facilities

Technical Data

Model selection (I–IV)

Model	Sulfate resistance (KS)	Erosion coef. (K)	Chloride penetration (charge passed)
CBGM-1	≥ 150	≥ 1.0	≤ 800 C
CBGM-2	≥ 150	≥ 1.0	≤ 500 C
CBGM-3	≥ 150	≥ 1.0	≤ 500 C
CBGM-4 (with pea gravel)	≥ 150	≥ 1.0	≤ 500 C

Verified performance (CBGM-2 / Class II)

Test item (CBGM-2 / Class II)	Specification	Test result
Flowability – initial	≥ 340 mm	345 mm

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Flowability – 30 min	≥ 310 mm	310 mm
Compressive strength – 1 day	≥ 20 MPa	53.5 MPa
Compressive strength – 3 days	≥ 40 MPa	59.5 MPa
Compressive strength – 28 days	≥ 60 MPa	66.1 MPa
Sulfate resistance grade (KS)	≥ 90	150
Chloride ion penetration (charge passed)	≤ 500 C	261 C

Application Guidelines

Surface preparation: Remove laitance, dust, oil and weak concrete. Pre-wet concrete to SSD condition (no standing water).

Mixing: Use a forced-action mixer. Add powder to clean water gradually and mix until uniform. Control water addition to reach target flow; do not re-temper with extra water.

Placement: Seal formwork to prevent leakage. Pour or pump continuously from one side; provide vents at high points to release air.

Curing: Protect fresh grout from wind/sun and early seawater splash. Cure according to project specifications.

Notes & Disclaimer

Technical data shown are based on the provided test results and referenced standards. Performance may vary with temperature, water addition, mixing equipment and site conditions. For critical marine works, a site trial is recommended prior to full application.

This document is intended for guidance only. Please confirm suitability with project requirements and local standards.