



SUCTION BUCKET AND CAISSON GROUT

CBGM-5 Low-Density Suction Bucket Foundation Grout

Product code: CBGM-5 | English technical translation | Revision EN-01



A lightweight, long-retention, non-bleeding cementitious grout for offshore wind suction bucket and suction caisson cavities where buoyancy, extended pumping duration and stable rheology are decisive.

SOURCE STATUS

Translated from the supplied Chinese product manual. Requirements are kept separate from independent test results. Confirm the current controlled TDS, batch label and project specification before approval.

Intended use

- Offshore wind suction bucket foundations
- Composite suction bucket installation
- Underwater grouting operations
- Long-distance and high-lift pumping routes

Product characteristics

- Low dry bulk and slurry density
- Initial, 30 min, 60 min, 4 h and 8 h flow requirements
- Zero 24 h free bleeding
- Operational window stated as at least 10 hours
- Dust-controlled factory-blended powder

Technical requirements

Property	Requirement / published value	Source / interpretation
Dry bulk density	680 to 750 kg/m ³	GB/T 5486; supplied manual
Slurry density	1300 to 1500 kg/m ³	GB/T 50080; supplied manual
Initial / 30 / 60 min flow	>=290 / >=260 / >=230 mm	GB/T 50448
4 h / 8 h retained flow	>=200 / >=150 mm	GB/T 50448
Levelling	Self-levelling	Visual check
24 h free bleeding	0%	GB/T 50080
Operational time	>=10 h	Published manual statement

Installation control

01	Confirm cavity geometry, total grout mass, buoyancy assumptions and the pumping duration.
02	Use alternating mixers or other approved continuous-production equipment.
03	Mix for approximately 5 minutes or as confirmed by the project trial.
04	Check flow and density before releasing each batch to the pump.
05	Lubricate the hose with approved material, monitor discharge, and continue until the calculated and observed fill criteria agree.

Packaging and storage

25 kg composite bags. Store dry and ventilated. The supplied manual states a 3-month storage period; confirm the current batch label and controlled TDS.

Project approval checklist

- Connection drawing, gap geometry and total material volume
- Specified requirement, test age, specimen geometry and applicable method
- Minimum and maximum material, substrate and ambient temperatures
- Mixer, pump, hose, standby equipment and continuous placement capacity
- Inspection, sampling, curing and release-strength plan
- Current approved TDS, SDS and project-specific method statement

Technical contact

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