

OFFSHORE WIND FOUNDATION GROUT

HGM-125 Offshore Wind High-Strength Non-Shrink Grout

Product code: HGM-125 | English technical translation | Revision EN-01



Polymer- and nano-modified cementitious grout developed for offshore wind pile-transition zones, jacket guide-frame foundations and annular load-transfer connections requiring high flow, early strength, high modulus and fatigue-oriented design review.

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 pile-transition connections
- Jacket guide-frame foundation annuli
- Offshore substation guide-frame foundations
- High-modulus marine load-transfer zones

Product characteristics

- Very high and uniform compressive strength
- High static modulus and early strength
- Long flow-retention route
- Zero bleeding requirement
- Pressure-holding and curing sequence for annular grouting

Technical requirements

Property	Requirement / published value	Source / interpretation
Initial / 30 / 60 min flow	≥ 290 / ≥ 260 / ≥ 230 mm	GB/T 50448-2015; supplied manual
Enhanced published flow route	≥ 340 / ≥ 310 / ≥ 260 mm	Published product column in supplied manual
Initial setting time	≥ 120 min	GB/T 50080
Fresh apparent density	2350 to 2500 kg/m ³	Supplied manual
Air content	$\leq 4\%$	GB/T 50080
Bleeding	0%	GB/T 50080
1 / 3 / 28 d cube compressive strength	≥ 50 / ≥ 85 / ≥ 125 MPa	GB/T 50081
1 / 28 d static compressive modulus	≥ 12 / ≥ 45 GPa	GB/T 50081
24 h minus 3 h vertical expansion	0.02 to 0.5%	GB/T 50448-2015

Installation control

01	Seal the base of the annular space and install the approved grout lines.
02	Verify the primary pump, standby pump, hoses, pressure gauges and freshwater supply.
03	Pump continuously through the planned line until the annulus is completely filled.
04	Apply the approved pressure-holding stage, then terminate pumping and begin curing.
05	Use project-specific witnessed sampling and do not substitute this summary for an approved offshore method statement.

Packaging and storage

Packaging information conflicts between the supplied manual translation (50 kg) and the supplied bag image (25 kg). Do not use either value for ordering without checking the current controlled TDS and batch label. Protect unopened bags from moisture.

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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This English document is a controlled public translation prepared from the supplied Chinese manual. It is not a certificate, declaration of conformity or substitute for a project-specific approval package.