



NEMO 2.1

Epoxy-Olefin Hybrid System

NEMO 2.1 is an epoxy-olefinic based subsea insulation field joint and custom coating system designed for flow assurance.

SYSTEM DESCRIPTION

- Layer 1: Anti-corrosion – Fusion Bonded Epoxy / Primer / Epoxy Paint
- Layer 2: Thermal insulation – Low pressure castable epoxy-olefin hybrid

SUPERIOR INSULATION PROPERTIES AND UNMATCHED MECHANICAL PROPERTIES

- Provides excellent long-term thermal insulation properties in subsea environments
- Chemical and fusion bonding produces a continuous interface between structures, field joint systems and line pipe coating
- Robust bonding at interfaces mitigate risks of cracking and delamination during reeling, installation and operation
- With short gel and de-mould times, as well as a low cure exotherm; the system has been optimised for critical path production environments
- Predictable end of life thermal conductivity and compression for solid systems
- Extended cool-down time

INSTALLATION

- NEMO 2.1 can be used for both Structures (SURF & SPS) and Field Joints
- NEMO 2.1 can be applied onshore for subsequent reeling and offshore installation, as well as offshore, on S-lay and J-lay pipelaying vessels
- Low application temperature and cast in place moulds are suitable for a range of applications including:
 - Field joints
 - Xmas trees
 - Jumpers
 - Spools
 - Manifolds
 - PLETS
 - Bends
 - Halfshells

LINE PIPE COMPATIBILITY

- Thermoflo® (Polyurethane syntactic)
- Thermotite® (PP foam)
- Thermotite® ULTRA
- Wetisokote® (SLPP syntactic)

VALUE ADDED SERVICES

- NEMO 2.1's versatility can lead to a reduction in project qualification costs
- Product is supported by Shawcor's global technical services and project management teams
- Shawcor's global footprint ensures clients are supported with their HSEQ requirements and their delivery schedules are met
- Application equipment and technicians can be quickly mobilized to any location or worksite required by the customer

TYPICAL PROPERTIES	NEMO 2.1
Max Operating Temperature	125°C (257°F)
Thermal Conductivity	0.185 w/m ² k
Max Depth	3000m
Hardness	55 Shore D After 24 hours
Density	1115 kg/m ³ ±5%
Elongation at break	30%

CUSTOM COATING LOCATIONS

EMAR

- Orkanger, Norway
- Ellon, Scotland

Asia Pacific

- Kuantan, Malaysia

Client Locations

- Mobile custom coating solutions

FIELD JOINT LOCATIONS

- Spoolbases
- Onshore multi-jointing sites
- Offshore on pipelaying vessels

TRACK RECORD

- Subsea 7 – BP Arundel

Head Office & Americas

5875 N. Sam Houston Pkwy W.
Suite 200
Houston, Texas 77086, USA
t +1 281 886 2350

Europe, Middle East, Africa & Russia

Dellaertweg 9-E,
Gebouw "Le Carrefour",
2316 WZ Leiden,
The Netherlands
t +31 071 808 0270

Asia Pacific

101 Thomson Road
#17-01/02 United Square
Singapore 307591
t +65 6732 2355

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