



XTREMETEMP CC

Norbornene System

XtremeTemp CC is a fast cure, flexible norbornene thermal insulation material suitable for hot wet operation up to 180°C.

XtremeTemp CC is characterized by its low thermal conductivity and high ductility, making it ideally suited for any wet insulation application, including subsea production systems, fittings, bends and flowlines. The material is applied using low pressure liquid casting equipment similar to that used in PU casting and exhibits excellent adhesion to phenolic paint, FBE coatings and to a number of thermoplastic coating materials.

SYSTEM DESCRIPTION

- Layer 1: Anti-corrosion – Fusion Bonded Epoxy / Epoxy Paint
- Layer 2: Thermal insulation – Low pressure castable norbornene system

SUPERIOR INSULATION PROPERTIES AND UNMATCHED MECHANICAL PROPERTIES

- Tested to 180°C; XtremeTemp offers market leading application capabilities and excellent long-term thermal insulation properties for subsea environments
- Robust bonding at interfaces mitigates risks of cracking and delamination during installation and operation
- Predictable end of life thermal conductivity and compression for solid systems
- Fully tested to ISO 12736

INSTALLATION

- Low application temperature and cast in place moulds are suitable for a range of applications, including:
 - Xmas trees
 - Jumpers
 - Spools
 - Manifolds
 - PLETS
 - Bends
 - Halfshells

VALUE ADDED SERVICES

- XtremeTemp CC is supported by Shawcor's global technical services and project management teams
- Shawcor's global footprint ensures clients are supported with HSEQ requirements and that their delivery schedules are met
- Application equipment and technicians can be quickly mobilized to any location or worksite required by the customer

TYPICAL PROPERTIES	XTREMETEMP CC
Max Operating Temperature	180°C (356°F)
Thermal Conductivity	0.18 W/(m*K)
Max Water Depth	Unlimited
Hardness	60 Shore D After 24 hours
Density	980 kg/m ³
Elongation at break	100 %

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

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