



Subsea structures

Innovative, high performance coating solutions for extreme subsea environments

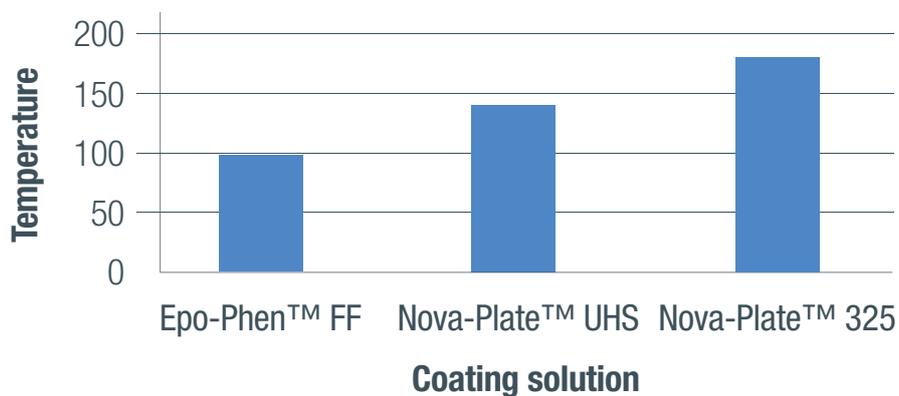
Prequalified to Norsok M501 System 7; our range of high temperature, high pressure resistant coatings are designed for use in extreme subsea environments operating at elevated temperatures.

They provide quick fast curing two coat applications and can be used where conventional coating solutions are not recommended.



Our solution								
Product	Low temp application	Single leg airless	Nº of Coats	Mix ratio	Subsea service temperature	OAP (Optional)	Multiple uses	Abrasion/ chemical resistance
Epo-Phen™ FF	10°C / 50°F	●	2	4:1	(99°C / 210°F)	●	●	1
Nova-Plate™ UHS	13°C / 55°F	●	2	4:1	(140°C / 284°F)	●	●	3
Nova-Plate™ 325*	10°C / 50°F	●	2	2:1	(180°C / 356°F)	●	●	3+

Subsea service temperature



Epo-Phen™ FF

Description	Key Features	Coating System	Approvals	Typical Use
Epoxy novolac.	<ul style="list-style-type: none"> • Versatile. • Originally use as a cost effective tank lining for hydrocarbon cargoes. • Can be used under thermal insulation at elevated or cryogenic temperatures immersion service in water up to 99°C / 210°F and hydrocarbons such as crude (up to 104°C / 219°F), gasoline, fuel oil, diesel, ethanol or methanol. • 2 Coat rather than 3 coat system. 	Typical specification: Grit blast Sa 2½ 2 x 175µ (7mil) dft.	NORSOK M501 System 7C (99°C / 210°F).	<ul style="list-style-type: none"> • Subsea Tree's and valves. • Manifolds and sleds. • Jumpers. • Risers, flowlines.

Nova-Plate™ UHS

Description	Key Features	Coating System	Approvals	Typical Use
Epoxy novolac.	<ul style="list-style-type: none"> • Solvent free epoxy novolac epoxy tank lining. • Excellent abrasion resistance. 	Typical specification: Grit blast Sa 2½ 2 x 175µ (7mil) dft.	NORSOK M501 System 7C (140°C / 284°F).	<ul style="list-style-type: none"> • Subsea Tree's and valves. • Manifolds and sleds. • Jumpers. • Risers, flowlines.

Nova-Plate™ 325*

Description	Key Features	Coating System	Approvals	Typical Use
Solvent free epoxy novolac.	<ul style="list-style-type: none"> • Originally used as high temperature high pressure tank lining (HTHP). • Extends service life. • Saves on downtime. • Novolac technology. • Excellent abrasion resistance. 	Typical specification: Grit blast Sa 2½ 2 x 175µ (7mil) dft.	NORSOK M501 System 7C (180°C / 356°F).	<ul style="list-style-type: none"> • Subsea Tree's and valves. • Manifolds and sleds. • Jumpers. • Risers, flowlines.

Subsea track record

Customer	Project	Date
ESB Surface Engineering	Deep Sea Valves	2007
Talisman	Duart & Galley Sub-sea Structures North Sea	2007
Chevron Ninian Pipeline	Sub-sea manifold Central & Southern North Sea	2005
Venture Annabel	Sub-sea manifold & pipespools North Sea	2004
Lundin Broom Tow Heads	Sub-sea structures North Sea	2004
Exxon Mobil	Skene NBR, Sub-sea structures North Sea	2002
Halliburton	Extreme South Tow Heads, Sub-sea structures North Sea	2002



To learn more, contact us

Europe, Middle East, Africa & India: +44 (0)1204 521771

North America: +1 800 524 5979

Asia: +8 621 5158 7798

sales.uk@sherwin.com

www.protectiveemea.sherwin-williams.com