FutureWrap SOS Technical Summary

Repair system	SOS
Overview	FutureWrap SOS was developed for the temporary repair of pipework (all components) and is based on a glass cloth and a water activated polyurethane resin.
Applications	Pipework (All components)
Defects	Internal, external, through wall
Fibre type	E-glass – cross-ply stitched cloth (0^0/90^0)
Resin type	Polyurethane resin – Water activated, ambient cure
Maximum design temperature (^{0}C)	70
Maximum design pressure (through wall defect) (bar)	15
Maximum design pressure (non-through wall defect) (bar)	20
Modulus 0^0 (GPa)	7.9
Modulus 90^0 (GPa)	7.9
Poisson's ratio 0^0	0.3
Poisson's ratio 90^0	0.3
Shear modulus (GPa)	2
Thermal expansion coefficient 0^0 (mm/mm/^{0}C * 10^{-6})	7.1
Thermal expansion coefficient 90^0 (mm/mm/^{0}C * 10^{-6})	7.1
Design allowable strain 0^0 (mm/mm)	0.003
Design allowable strain 90^0 (mm/mm)	0.003
Energy release rate (J/m²)	5.4
Cure time (hrs)	12
Chemical resistance	3<pH<10

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