DONKIN POLYURETHANE COATING PERFORMANCE TESTS

	BS EN 10290	T/SP/CW/6-2	DONKIN IN-HOUSE TESTS	
STANDARD	Steel tubes and fittings for onshore and offshore pipelines	Specification for the external protection of steel line pipe and fittings using fusion bonded powder and associated coating systems — Part 2: Factory applied coatings.	Additional tests	Donkin Polyurethane coating test results
MINIMUM THICKNESS	Class A 1000 microns Class B 1500 microns	Minimum 1500 microns		Min. coating thickness measured ≥1500 microns (Coated in accordance with BS EN 10290 class B)
HOLIDAY Detection	8 volts per micron with max of 20kV	125 volts per 25 microns (i.e. 5 volts per micron)	Test at 20kV	No holidays detected at 20kV
IMPACT Resistance	5 Joules per mm (1500 microns) of coating at 23°C. This equates to a minimum of 7.5 Joules (1.5 x 5) at 23°C. In layman's terms this is equivalent to dropping a M24 spanner from a height of 0.83 metres	5 Joules at 23 °C		No visual damage or holidays detected with a 3.5kg bar with 25mm spherical tip up to 2.09m at 23°C (72 Joules). This is equivalent to dropping a M24 spanner from a height of 7.98 metres at 23°C.
	3 Joules per mm of coating at -5°C.			No visual damage or holidays detected up to 1.7m at -5°C (58.4 Joules).
Chip test (Simulate Back Filling)			Drop 16kg of nominal 14mm diameter rounded stones from 2 metres. Perform holiday test. Repeat. The coating must be able to withstand 2 drops in succession.	No visual damage or holidays detected.
DROP TEST			Roll valve (71kg) off pallet (145mm height) and check for visual impact damage and holidays.	No visual damage or holidays detected when tested up to 97 Joules.



EXPECT TOTAL SAVINGS

EXPECT QUALITY IN EVERY STEP