

Elaston-PL75

Polyurethane Pipelining Elastomer

TECHNICAL DATA SHEET



DESCRIPTION

Elaston-PL75 is a 100% solids (solvent & phthalate-free), two-component polyurethane elastomer suitable for lining the internal surfaces of ductile iron and concrete pipes. It gels in minutes to protect against wear, abrasion, chemical attack and corrosion and forms a durable membrane safe for use with drinking water. Elaston-PL75 Exceeds British Standard BS EN 15655:2009.

ADVANTAGES

- Meets BS EN 15655:2009
- Cost effective internal pipelining protection
- Fast drying time
- Safe for use with drinking water
- Low odour
- Non-flammable
- No VOC's
- Very low moisture vapour transmission rate

APPLICATIONS

- Long term protection against chemical attack
- High wear resistance
- Ideal for sewerage pipes
- Spray or pour into spinning pipe to form smooth, seamless coating with high adhesion
- Safe for use with drinking water

PROPERTIES – Part A (Iso) and Part B (Resin)

PROPERTIES	A	B
Appearance	Amber Clear Liquid	White Opaque Liquid
Viscosity ₂ @ 25 °C, [cps]	920	720
Specific Gravity @ 25°C	1.2	1.05
Solids Content, [wt %]	100	100
Mix Ratio – Parts by volume	1	1
PROPERTIES	A	B

PROPERTIES CURED

PROPERTIES	TEST METHOD	RESULTS
Pot Life (seconds)	@ 250C	45 – 60
Gel Time (minutes)	@ 250C	3
Hardness - Shore D	ASTM D 2240-1	75
Elongation at 24°C	ASTM D412 06ae2	>20%
Abrasion Resistance	ASTM ASTM D4060, CS17 @ 1000rpm with 1000g weight	< 20mg
Tensile Strength	ASTM D 412-92	21 MPa
Tear Strength	ASTM D 624-92	110 N.mm
Solids (%)		100
Adhesion (Mpa)		>10
Theoretical Coverage	1L of A+B	1m ² @ 1mm

CHEMICAL RESISTANCE TESTS (ISO 62:2008)

Material Tested	British Standard BS EN 156655:2009	Actual Mass Gained %	Weight loss after drying %
Water	<15	1.26	0.24
H2SO4 10%	<10	2.54	0.19
NaOH 2.5%	N/A	1.2	0.15
NaOH 10%	N/A	2.54	0.17