3LPP COATING PIPE

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The initial layer of a 3LPP (three-layer polypropylene) coating is formed by fusion bonding a high-performance Fusion Bonded Epoxy primer, or FBE primer. The following step is to apply a copolymer that functions as an adhesive. The final step in this process is to apply a polypropylene outer coat. While the inner 3LPP Coating protects the material from chemical damage or decay, it is the outside layer that imparts toughness to the material, making it one of the most durable coating options available.

●Production Standards of 3LPP Coating Pipe

Properties	3LPP Indicators
Minimum Pipe Diameter	90 mm (3.5″)
Maximum Pipe Diameter	1220 mm (48″)
Minimum Recommended Handling & Construction Temperature	-20°C
Maximum Recommended Operating Temperature	110°C (buried service)
Bendability	Yes

•Test of 3LPP Coating Pipe

Property	Test Description	Typical Values
Degree of cure of epoxy resin	DIN 30670	ΔTg according to the manufacturer specifications
Impact Test	DIN 30670	≥ 7 J/mm
Cathodic Disbondment	DIN 30670	23°C/ 28 days or 60°C/ 2 days max 7 mm
Peel Strength	DIN 30670	> 35 N/cm at 23°C; < 15 N/cm at 70°C

•The Service Life of 3LPP Coating Pipe

Operating Temperature(℃)	Expected Minimum Service Life (Year)
23	50
60	50
80	30
90	16
100	8
If the coatings are used at alternating temperatures, their expected service life should be inferred from the values made above.	