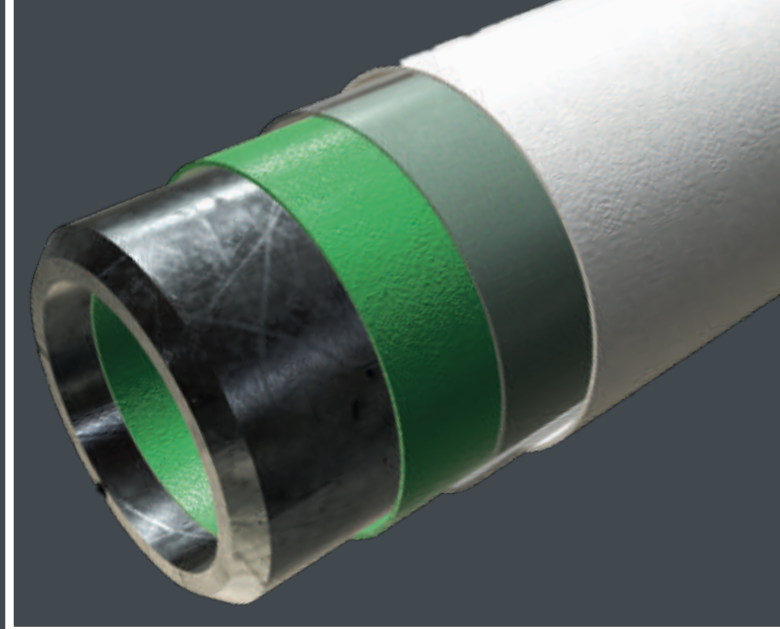




Verniciatura Industriale Pesarese
Coating Services - Solutions against time



3LPP THREE LAYER POLYPROPYLENE

V.I.P. Pesaro is one of the few companies able to offer the 3LPP coating on pipes as well as on custom pieces. The coating is a multilayer composed of a primer fusion bonded epoxy (FBE) followed by an adhesive copolymer and another layer of polypropylene which provides resistance and long-lasting protection. The system ensures the applicability of the sintered coating also on pieces with special shapes.

Long-lasting corrosion protection



The FBE primer offers an excellent adhesion to the substrate and provides a **long-term corrosion protection** for pipelines. It also ensures the resistance to the cathodic disbondment so the total cost of cathodic protection of the pipeline decreases.

Remarkable mechanical protection



The applied polypropylene layer protects the pipeline during shipping and installation reducing repair costs and providing an **underground protection against mechanical, chemical and abrasive attacks**.

Applying an higher polypropylene thickness, the mechanical protection increases proportionally.

Advantages of the sintered system



V.I.P. Pesaro using this special application technique is able to coat also specific pieces with special shapes (bends, tees, reducers, joints, etc.).

There aren't any limitations about the amount of pieces to coat, even the single piece can be treated. 3LPP can be applied **in different thicknesses** to meet the requirements of project specifications.

Application

- External coating
- Internal lining

Applicability - **Limitless amount**

- SMALL AND LARGE PIPES
- STANDARD FITTINGS
- BENDS
- FLANGES
- CUSTOM PIECES
- BUCKLE ARRESTORS

Inspection & Testing

In our internal laboratory, we perform all the tests and inspections during all the project's phases, carried out with NACE certified staff.

Coating typical properties

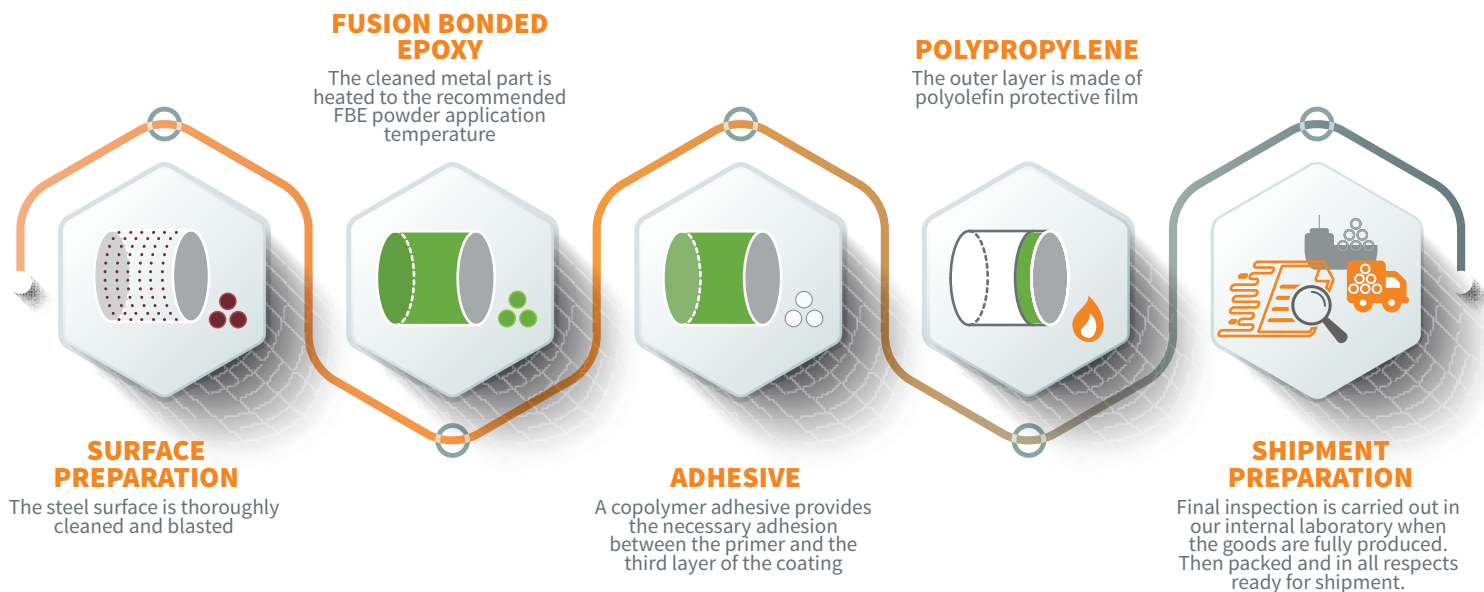
- Elongation at Break:** > 600%
- Hardness:** Shore D 63
- Minimum recommended temperature:** - 20°C
- Maximum recommended temperature:** + 110°C

Coating capacity

- PIPES**
- Diameter** from 1/2" to 120"
- Maximum unit **length** 13,5 meters
- Maximum unit **weight** 15,000 kg
- JOINTS AND/OR CUSTOM PIECES**
(Bends, tees, reducers, flanges, etc.)
- Maximum **size** 3.0 x 3.0 x 13.5 meters
- Maximum **unit weight** 15,000 kg
- Maximum **thickness** of the coating 3,5 mm



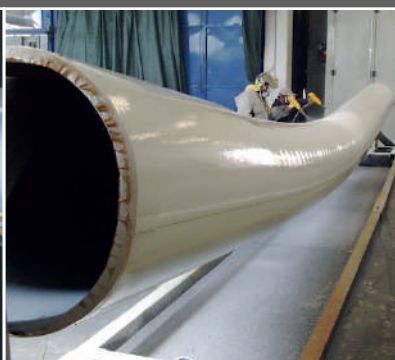
3LPP PRODUCTION PROCESS



GENERAL TESTING

These are merely approximate values adjustable according to clients' requirements.

PROPERTY	TEST DESCRIPTION	TYPICAL VALUES
Degree of cure of epoxy resin	ISO 21809/1	ΔT_g according to the manufacturer specifications
Impact	ISO 21809/1	> 10 J/mm
Cathodic Disbondment	ISO 21809/1	23°C/ 28 days or 60°C/ 2 days max 7 mm
Peel Strength	ISO 21809/1	≥ 25 N/cm at 23°C; ≥ 4 N/cm at 90°C
Continuity (Holiday detection)	ISO 21809/1	10 kV/mm; max 25kV



Address : Via del Vallo n°46
61122 - Pesaro (PU) - Italy
Phone : +39 0721 20 28 82
Fax : +39 0721 20 34 63

vip Verniciatura Industriale Pesarese
Coating Services
Solutions against time
www.vippesaro.com

E-mail : info@vippesaro.com
Cod. Fisc./Part. IVA : IT 02198710416
R.E.A. : n° 162110
Cap.Soc. : 100.000,00 i.v.