



Verniciatura Industriale Pesarese

Coating Services
Solutions against time

3LPE THREE LAYER POLYETHYLENE

V.I.P. Pesaro is one of the few companies able to offer the 3LPE 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 polyethylene 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

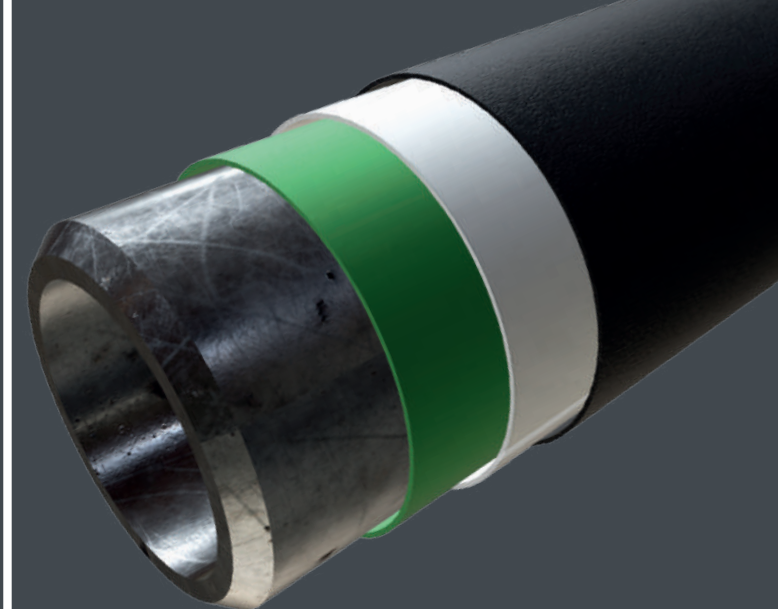


The applied polyethylene layer protects the pipeline during shipping and installation reducing repair costs and providing an **underground protection against mechanical, chemical and abrasive attacks**. Applying an higher polyethylene thickness the mechanical protection increases proportionally.

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. 3LPE 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

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 52

Minimum recommended temperature : - 40°C

Maximum recommended temperature : + 80°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



ISO 14001
LL-C (Certification)

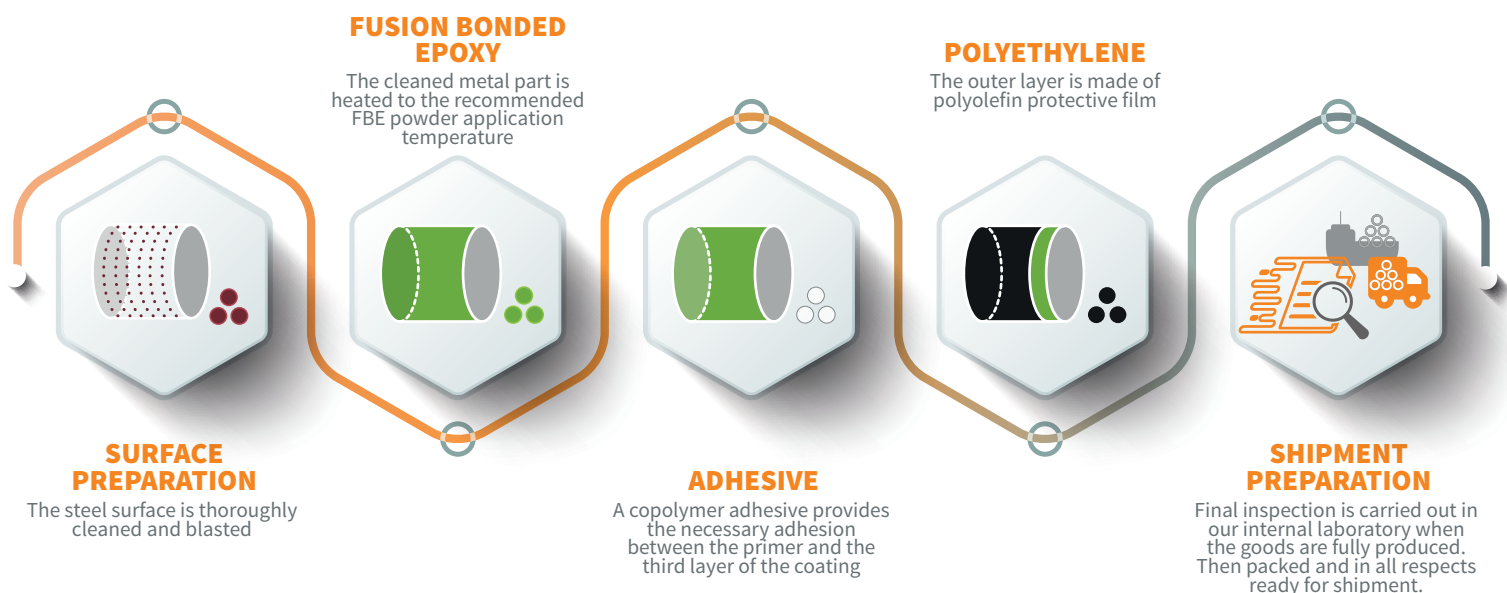


ISO 9001
LL-C (Certification)



ISO 45001
LL-C (Certification)

3LPE 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	DIN 30670	ΔT_g according to the manufacturer specifications
Impact	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
Continuity (Holiday detection)	DIN 30670	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.