

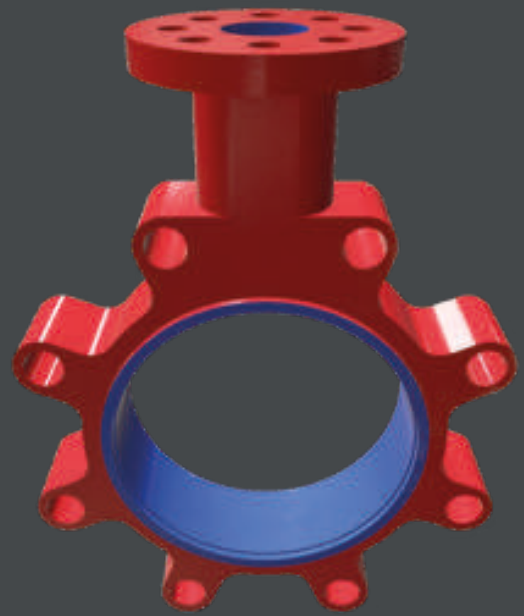


Verniciatura Industriale Pesarese

Coating Services  
Solutions against time

# PU SOLVENT FREE POLYURETHANE WITHOUT SOLVENTS

This is a fast-drying bi-component polyurethane with low environmental impact as it does not contain solvents, bitumen or tar. It provides steel surfaces valuable and long-lasting protection against corrosion, thanks to its barrier action. It can only be applied hot using special high pressure airless equipment. It has an extremely low permeability to water and good resistance to cathode detachment.



## Long-lasting corrosion protection



Polyurethane without solvents can be used for protecting products which work in both low and high temperatures, it has good properties of chemical resistance even in aggressive industrial environments, supports unforeseeable variations in underground humidity and has good resistance to attack from microorganisms in the soil or marine environment.

## Remarkable mechanical protection



Guarantees very good mechanic resistance to abrasion and blows during installation, thanks to its characteristic flexibility.

## Advantages of the sintered system



As it can also be applied with a brush using a special version of the product, it is possible to guarantee the continuity of the coating even onto very complex items. There are no limits in the quantity of pieces which may be coated, even individual pieces may be treated. Differentiated thicknesses can be applied in order to meet the specific design specifications.

## Application

- External coating
- Internal lining

## Applicability - **Limitless amount**

- SMALL AND LARGE PIPES
- STANDARD FITTINGS
- BENDS
- FLANGES
- CUSTOM PIECES
- BUCKLE ARRESTORS
- FIELD JOINTS
- TANK
- WATERWORKS COMPONENTS
- STEEL STRUCTURES
- VALVES

## 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 DIN EN 10290** : 1 %  
**Hardness** : 75 shore D; 62 shore D 2h at 80°C

## Coating capacity

### PIPES

**Diameter** from 1/2" to 120"  
Indefinite maximum unit **length**  
Maximum unit **weight** 15,000 kg

### FITTINGS AND/OR SPECIAL PIECES

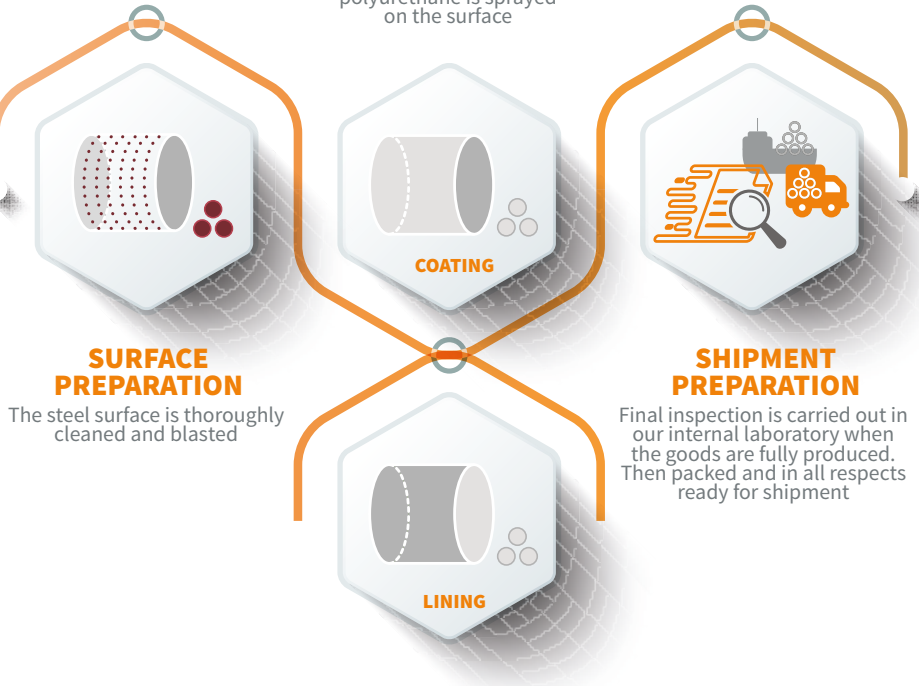
(Bends, T-shapes, reducers, flanges, etc.)  
Maximum **size** 3.0 x 3.0 x 13.5 meters  
Maximum **unit weight** 15,000 kg  
Maximum **thickness** of the coating 3,5 mm



# PU WITHOUT SOLVENTS PRODUCTION PROCESS

## SOLVENT-FREE POLYURETHANE

A fast-drying bi-component polyurethane is sprayed on the surface



## GENERAL TESTING

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

PROPERTY	TEST DESCRIPTION	TYPICAL VALUES
Specific electrical insulation	DIN EN 10290	after 100dy at 23 °C - $(1.8) \cdot 10^9 \Omega m^2$
Impact	DIN EN 10290	Test voltage = 20 kV at 23 °C Impact (max.) = 10 J Test voltage = 18 kV at 23 °C Impact = 8 J/mm
Cathodic Disbondment	DIN EN 10290	28dy at 23 °C - 2,8mm; 28dy at 90 °C - 13mm
Pull-off	DIN EN 10290	at 23 °C: 8 MPa; at 90°C: 6MPa
Thermal aging (adhesion test)	DIN EN 10290	after 100dy at 100 °C : 13 MPa



**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.