



Verniciatura Industriale Pesarese

Coating Services
Solutions against time

PU-M POLYURETHANE MORTAR

Polyurethane mortar coating offered by V.I.P. Pesaro is normally applied to riser pipelines. It is a low density filling mass, based on special loads and fast-setting polyurethane resins. Applicable at variable density as anticorrosion and shock absorbent coating by pouring using extremely thick formwork to guarantee the best insulation. Moreover, it provides high resistance to abrasion, impact, chemical agents, sea water, etc., further to a good dimensional stability, keeping its properties unaltered even if exposed to thermal excursions.

Long-lasting protection



- Perfect adherence to sanded steel, with very high anticorrosive protection.
- High resistance to compression, blows and bending.
- Dimensional stability and maintenance of properties even when there is high chemical, thermal and mechanical stress.

Remarkable water protection

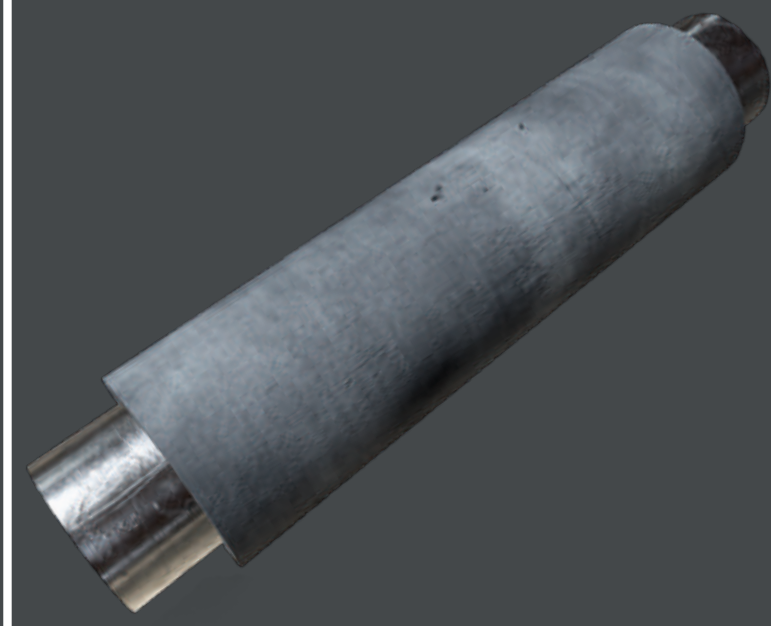


- Excellent impermeability and resistance to saltwater.
- Extremely low permeability to water and good resistance to cathode disbondment which makes it ideal for structures intended for submarine use.
- The product fully cured has a water permeability extremely low and a good resistance to cathodic disbonding; for this reason it is recommended for application in oceanic environment.

Applicability freedom



- Applicable by pouring using extremely thick formwork.
- Applicable at variable density according to the degree of insulation required.



Application

 **External coating**

Applicability - **Limitless amount**

 **SMALL AND
LARGE PIPES**

 **STANDARD
FITTINGS**

 **BENDS**

 **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

Bacterial resistance : corrosion resistance to bacterial attacks according to ENI 20550

Impact resistance : according to specific ENI 20550

Minimum recommended temperature : - 20°C

Maximum recommended temperature : + 120°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 **unit weight** 15,000 kg



ISO 14001
LL-C (Certification)



ISO 9001
LL-C (Certification)



ISO 45001
LL-C (Certification)

PU MORTAR PRODUCTION PROCESS

FORMWORK ASSEMBLY

A mould is assembled around the piece, used to give shape to the coating

SHIPMENT PREPARATION

Final inspection is carried out in our internal laboratory when the goods are fully produced. Then packed and in all respects ready for shipment

SURFACE PREPARATION

The steel surface is thoroughly cleaned and blasted

POLYURETHANE MORTAR

The polyurethane is poured into the mould. It is a low density filling mass, based on special loads and fast-setting polyurethane resins

GENERAL TESTING

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

PROPERTY	TEST DESCRIPTION	TYPICAL VALUES
Compression	ASTM D 695	≥ 45 Mpa
Sea water immersion	ISO 11130	1000h at +18 °C/+40 °C, no loss of properties; $\leq 1\%$
Thermal conductivity	UNI 12667:2002	0,26 W/mK
Thermal resistance	UNI 12667:2002	0,155 m ² K/W
Cathodic disbondment	ASTM G8	28d at 23°C ≤ 9 mm; 2d at 65°C ≤ 9 mm



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