

High performance elastomeric protective coating

W POLI HBD 453 | W POLI ERD 443



Motors | Automation | Energy | Transmission & Distribution | Coatings

POLYUREA-BASED **WATERPROOFING** PROTECTIVE COATINGS WITH HIGH RESISTANCE TO ABRASION AND CORROSION FOR DIFFERENT INDUSTRY SEGMENTS

Over the past 30 years, chemical engineers have been researching different polymer formulations, and polyurea is among the most advanced resins ever produced.

The polymer stands out for its unique characteristics of high elasticity, breaking strength (no tearing, no chipping) and total waterproof after application.

Non-flammable, easy to clean and resistant to chlorine, salt water, various organic agents, acids, alkaline chemicals and petroleum-based products (diesel or gasoline), the W-Poli line withstands high and low temperatures.



WATERPROOFING A SILO WITH **W POLI HBD 453** COATING

CHECK OUT THE **PRODUCT LINE**

	HYBRID	PURE
COMPOSITION	Hybrid polyurea (modified amine)	Pure aromatic polyurea (amine)
TRAFFIC	Light	Heavy
MECHANICAL RESISTANCE	Moderate	High
ABRASION RESISTANCE	Moderate	High
TEAR STRENGTH	Moderate	High
UV RESISTANCE <small>*refers to color and gloss retention</small>	Moderate	Moderate
RECOMMENDED USE	Indoors	Indoors and Outdoors

THE W-POLI LINE IS COMPOSED OF HIGH-PERFORMANCE ELASTOMERS, 100% SOLIDS AND FREE OF VOLATILE ORGANIC COMPOUNDS (VOCs)

The coating has a very low reaction time (5-15 seconds), that is, much faster than polyurethanes and epoxies; therefore, it can be applied with excellent results on steel, concrete and wood.

The application is completely cured within 24 hours, while it takes most polyurethanes and epoxies seven days. Complete release of the coated space is much faster when using polyurea.

MAIN BENEFITS



Solves corrosion problems



Easy cleaning



High resistance to abrasion by impact or sanding



High tear strength



No chipping, cracking or peeling



High adhesion



Application on concrete, steel, aluminum, fiberglass, wood and rubber substrates



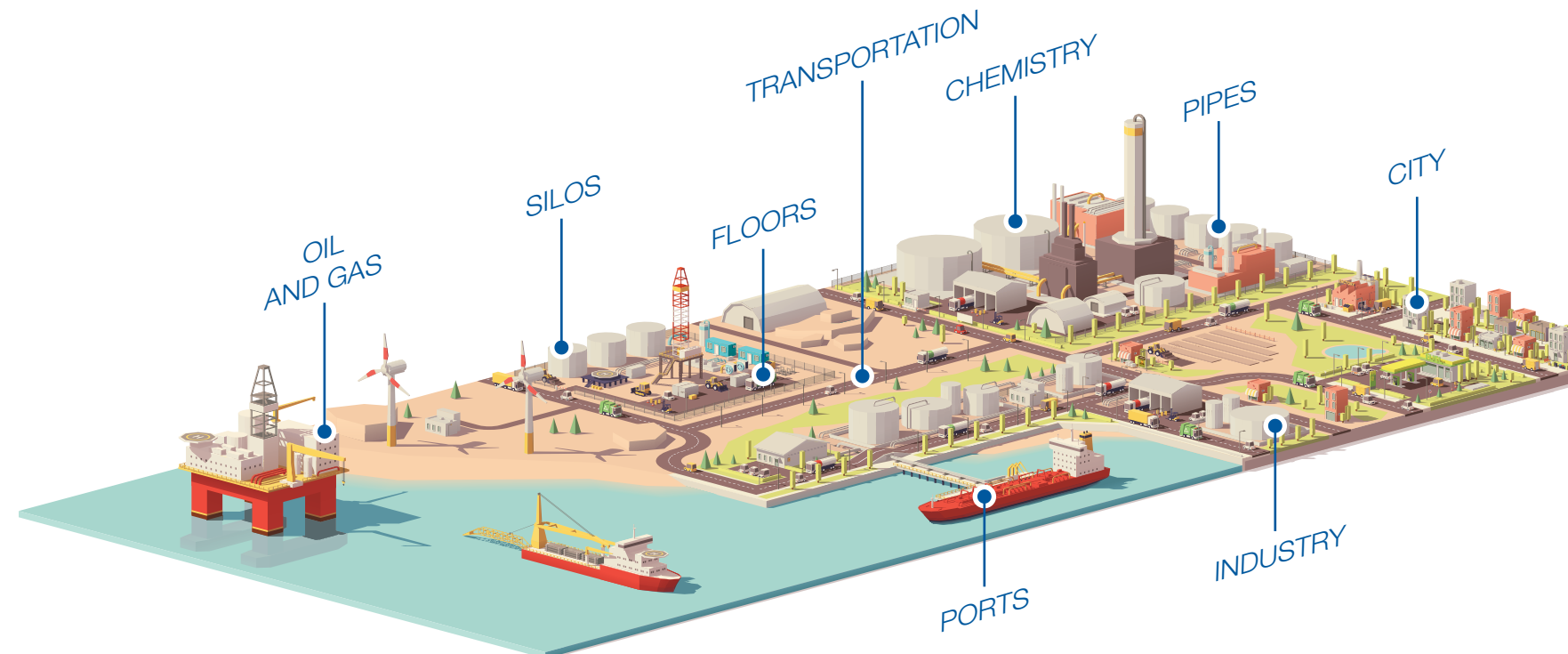
High strength and durability technology



Resistant to chlorine and salt water

SERVED SECTORS

Among the various segments in which the polyurea coating can be used, we mention below the main areas that can benefit from this solution, which offers quick application and a fast return to the work environment, also ensuring a reduction in downtime for future maintenance.



THE **LINE OF COATING** CAN BE APPLIED ON DIFFERENT SUBSTRATES WITH DRYING TO TOUCH IN JUST 5 SECONDS

The protective film resists to extreme temperature variations, impacts and bending. It has high resistance to abrasion and corrosion, reducing material fatigue, in addition to absorbing sound and vibration.

Fast application, with our approved technicians, guarantees a quick return to service with minimum maintenance downtime. When applied to truck dump boxes, the coating facilitates the material unloading process, increasing productivity.

APPLICATIONS BY **SEGMENTS**

AGRIBUSINESS

- Aviary, cattle and pig breeding site floor
- Agricultural machines and implements
- Grain dryers
- Unloading hoppers
- Waterproofing of tanks and silos

SANITATION

- Storage tanks
- Piping
- Protection of areas exposed to chemical agents

AUTOMOTIVE

- Coating of car and truck dump boxes
- Bus floors
- Vehicle chassis exposed to extreme conditions

MINING

- Crushing stations
- Ball mills (SAG)
- Magnetic separators
- Backhoe shovels
- Impact stations

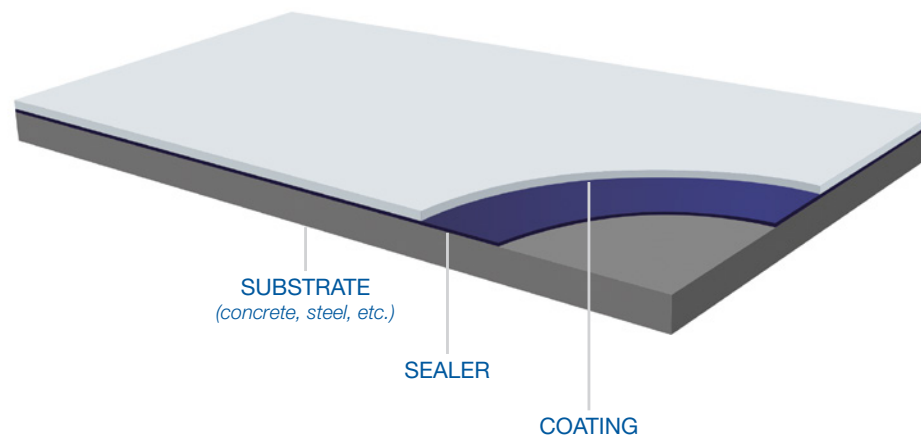
INDUSTRIAL

- Waterproofing of metallic structures
- Roofs
- Industrial floors
- Coating of concrete slabs
- Machines and technical parts

INFRASTRUCTURE

- Water distribution and sewage treatment network
- Rainwater collection
- Offshore platforms and ports

CONSTRUCTION SYSTEM



SCHEME 01 - FLOOR

Substrate: Concrete
 Sealer: HSS 301
 Coating: W-POLI HBD 453 / ERD 443

SCHEME 02 - METAL

Substrate: Carbon Steel
 Sealer: ONP 415
 Coating: W-POLI HBD 453 / ERD 443

SCHEME 03 - POLYSTYRENE

Substrate: Polystyrene
 Sealer: Not applicable
 Coating: W-POLI HBD 453 / ERD 443

APPLICATION CASES

PORTO ALEGRE, RS - SANITATION



CUSTOMER	DMAE - Municipal Department of Water and Sewage - Porto Alegre - RS
APPLIER	Marema Coatings
PROJECT	Coating of sewage tanks
AREA	30,000 m ²
PERIOD	2012

LONDRINA, PR - SANITATION



CUSTOMER	SANEPAR - Paraná Sanitation Company
APPLIER	Marema Coatings
PROJECT	Sewage Treatment Plants in Londrina
AREA	6,000 m ²
PERIOD	2011

SAO PAULO-SP - ROAD IMPLEMENTS



CUSTOMER	Marcopolo Mascarello
APPLIER	Marema Coatings
PROJECT	Protective coating on Marcopolo and Mascarello bus fleet for special projects. Protected areas: corridors, luggage compartments, access stairs, among others.



Any questions?
 Consult our technical team: tintas@weg.net

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COATINGS



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The values are subject to change without prior notice.

The information contained is reference values.