

WATERPROOFING, ABRASION, AND CHEMICAL RESISTANCE SOLUTIONS

Industrial Motors

Commercial & Appliance
Motors

Automation

Digital & Systems

Energy

Transmission &
Distribution

Coatings

Polyureas for civil construction,
industry, and machinery/
equipment protection.



Driving efficiency and sustainability



Line of elastomeric coatings for waterproofing with high resistance to abrasion, corrosion, and chemical agents for applications in civil and industrial works.

Pure polyurea is a two-component, ultra-fast-curing coating, applied exclusively by hot spray. It consists of a state-of-the-art polymer that, after curing, forms a continuous, seamless elastomeric membrane with mechanical properties superior to traditional technologies. Its dense and flexible structure provides excellent resistance to abrasion, impact, and corrosion, while ensuring total watertightness and extremely low permeability to gases such as methane and carbon dioxide.

With high elasticity and durability even in extreme environments, polyurea stands out as the ideal choice for critical applications, including waterproofing of tanks and containment structures, coating of chemical storage vessels, containment dikes and pits, underground and overhead pipelines, industrial flooring, loader buckets, and even port hoppers for bulk materials such as grains, fertilizers, and ores.



**TOTAL
WATERPROOFING**



**SUPER FAST
DRYING**



PURE POLYUREA WATERPROOFING SYSTEM

POLYPROOF MAX PURE

100% pure polyurea, two-component, **ultra-fast cure**, applied by **hot spray**. It forms a **seamless, continuous, and elastic membrane**, ensuring total watertightness even on complex geometries.

Key Features:

- Extremely fast cure (near-immediate return to service)
- High elasticity and crack-bridging capability
- Excellent abrasion and impact resistance
- High durability in aggressive environments
- Pigmentation options available
- Resistance to H₂S (hydrogen sulfide)

Typical Applications:

- Waterproofing of concrete structures
- Roofing systems and concrete slabs
- Foundations and containment structures
- Tunnels and channels
- Lagoons, reservoirs, and hydraulic infrastructure



ABRASION AND CHEMICAL PROTECTION FOR EXTREME ENVIRONMENTS

POLYPROOF MAX HI 55

Pure Polyurea developed for **severe industrial conditions**, offering **ultra-high chemical, mechanical, moisture, and abrasion resistance**. It forms a **continuous anti-corrosive barrier** with excellent performance in permanent immersion and exposure to highly aggressive agents.

Key Features:

- Superior resistance to corrosion, impact, and severe wear
- Low permeability to liquids and gases
- Low-friction surface
- Total watertightness
- Fast cure, even under critical conditions
- Wide thermal operating range

Typical Applications:

- Steel and concrete structures
- Industrial tanks and vessels
- Overhead and buried pipelines
- Areas exposed to aggressive chemical agents
- Continuous or intermittent immersion environments

CERTIFICATIONS



ISO 12944 6:2018 –
C5H, Im2 and Im3



CE Marking



POLYUREA SYSTEM FOR INDUSTRIAL FLOORING

POLYPROOF MAX PURE SL

Two-component, slow-cure polyurea system, specifically designed for **seamless industrial flooring**, with or without aggregate broadcast. It allows for **controlled application**, resulting in uniform, resistant surfaces with a high-quality aesthetic finish.

Key Features:

- Slow cure for greater application control
- Uniform surface finish
- High mechanical and wear resistance
- Fast installation and high durability
- Good resistance to UV degradation (color change may occur without affecting mechanical properties)

Typical Applications:

- High-traffic industrial flooring
- Logistics and manufacturing areas
- Parking garages and ramps
- Decorative and architectural projects
- Performance and aesthetic-demanding environments



CHECK OUT THE PRODUCT LINE

	POLYPROOF MAX PURE	POLYPROOF MAX HI 55	POLYPROOF MAX PURE SL
COMPOSITION	Pure Polyurea	Pure Polyurea	Pure Polyurea
TRAFFIC	Heavy	Heavy	Heavy
MECHANICAL STRENGTH	Moderate	High	High
ABRASION RESISTANCE	Moderate	High	High
TEAR STRENGTH	High	High	High
UV RESISTANCE* <small>*regarding color and gloss retention</small>	Moderate	Moderate	Moderate
RECOMMENDED USE	Abrasion protection and waterproofing	Chemical protection and abrasion	Heavy traffic and non-slip finish

APPLICATION CASE STUDIES

SEGMENT: FOOD AND BEVERAGE



CITY	Camaçari, Bahia
PROJECT	External coating of tank bases
OBJECTIVE	Waterproofing and structural protection

SEGMENT: CIVIL CONSTRUCTION



CITY	Curitiba, Paraná
PROJECT	Coating of concrete slabs
OBJECTIVE	Waterproofing and structural protection against leaks

SEGMENT: AGRO-INDUSTRY



CITY	São Bernardo do Campo, São Paulo
PROJECT	Coating of flow scales
OBJECTIVE	Structural protection against abrasion

SEGMENT: AGRIBUSINESS



CITY	Tupãssi, Paraná
PROJECT	Coating of silo bases
OBJECTIVE	Protection against abrasion, moisture, and operational wear

SEGMENT: ROAD EQUIPMENT



CITY	Caxias do Sul, Rio Grande do Sul
PROJECT	Coating of bus external access hatches
OBJECTIVE	Protection against impact, corrosion, and daily wear.

SEGMENT: AGRICULTURE



CITY	Toledo, Paraná
PROJECT	Coating of pipelines
OBJECTIVE	Protection against impact and wear.

The scope of WEG Group solutions is not limited to the products and solutions presented in this brochure.

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**For WEG's worldwide
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  **wegcoatings**

COATINGS



 +55 (47) 3276.4000

 tintas@weg.net

 **Guaramirim - SC - Brazil** ☎ +55 (47) 3276.4000

Mauá - SP - Brazil ☎ +55 (11) 4547.6100

Cabo de Santo Agostinho - PE - Brazil ☎ +55 (81) 3512.3000

Betim - MG - Brazil ☎ +55 (31) 3268.0686

Macaé - RJ - Brazil ☎ +55 (22) 99946.0697

Buenos Aires - Argentina ☎ +54 (11) 4299.8000

Atotonilco de Tula - Mexico ☎ +52 (55) 5321.4231

Atlanta - USA ☎ +1-800-ASK-4WEG