



**tevo**

TECHNICALLY  
SUPERIOR  
COATINGS



**CORNERSTONE**  
INTERNATIONAL

## ABOUT POLYUREA COATING

Polyurea is a two-component system that when mixed together creates one of the most durable coating applications available in the marketplace. A pure polyurea elastomer is derived from the reaction product of a polyisocyanate component and an amine terminated resin blend.

As a fast curing, thick film coating, polyurea is a logical solution when seamless, durable membranes are needed for waterproofing and protective purposes.

It can be coloured and is even available in a potable water approved formulation.

Polyurea are one of the most versatile polymers in the coatings formulations because of their low temperature and fast curing properties, their physical properties and their ease of application,"

"Polyurea coatings contain no VOCs or CFs, don't take a complicated system to apply and have great elastomer qualities.



Polyurea are generally considered high performance coatings, offering excellent colour and gloss retention, and good resistance to abrasion and chemicals

"Polyurea-based coatings formulations yield high-performance coatings systems with excellent chemical resistance, solvent resistance and outstanding durability, as well as other properties."

With such a wide range of performance characteristics, The usage of Polyurea runs through a plethora of industries with varied applications.





# AREAS OF APPLICATION

Boats ,Floatation Devices, Submersible Devices, Marinas Wharves  
Oil and gas and coal mining industries for Gas & Oil Tanker Trucks coating.



Construction industry for concrete surface protection and water proofing.



Manufacturing and chemical industry for surface protection and processing vessels.



Concrete industry to provide floor sealers, protective coatings, surface repair, or waterproof surfaces

Water industry, for storage tanks and pipeline corrosion protection.



# CONSTRUCTION

Polyurea is commonly used as a waterproofing sealant and corrosion-resistant coating on metals and concrete surfaces. Applications include building construction, rail and road transport, bridges, boats and ships, automobiles, oil and gas structures, and machinery.

Any construction infrastructure is prone to aging, and as it does, it begins to require refurbishment or replacement. One method of refurbishment is to carry out surface repairs and then apply protective coatings.

These coatings must be strong, flexible, and resistant to chemical attack. Spray applied catalyst free PURE POLYUREA is ideally suited for these kinds of surfaces.

The ability to reinforce the building materials and structures coupled with excellent resistance against corrosion and abrasion has dramatically increased the popularity of polyurea as a protective coating in the construction industry.



It is a green technology without pollution and toxicity to the environment

Polyurea has drawn the attention of construction activists and engineers as a modern building material due to its unique structure, unique properties, and relatively easy application even in hard to reach places.

Durability and high resistance against the atmospheric, chemical, and biological factors have made this polymer a superb option for the construction industry greatest advantage is that it sets up extremely quickly, allowing the applicator to build up a finished thickness in a single pass.





## BOATS & MARINE

Coatings are seamless and lightweight yet extremely durable on many surfaces including aluminium, fiberglass and wood. Use our product as a keel guard or for full bottom protection to enhance the life and beauty of your boat.

Protect docks, boathouses, floating homes, buoys and fish nets.

Exceptional abrasion and chemical resistance withstand hidden water hazards such as rocks, logs and branches, and a variety of beaching environments. Coating sets quickly so that you can hit the water in two to three days.

Sound dampening features allow for a quieter ride on all water conditions. Permanent adhesion means your boat bottom does not become brittle; it won't crack, peel or chip off.

Both abrasive and corrosive, the marine environment is unforgiving of maritime structures such as offshore platforms and rigs, and ocean-going vessels all of which are major investments for the companies operating them.



Some of the areas most affected are the decks, superstructure, ballast tanks, and anchor or chain wells. These areas suffer extreme exposure to saltwater, chemical agents and abrasion.

For maximum protection, a thick coat of polyurea is applied over the primed area for its resistance to weather extremes, excellent flexibility and high-impact strength.



## INDUSTRIES

Proper HVAC-R and industrial equipment coating can double or triple a product's life. Save time, money, and frustration while improving safety and sustainability by implementing corrosion protection measures.

Our Polyurea solves corrosion problems in a variety of applications including commercial heating, cooling, refrigeration or other industrial process coils and components that are regularly exposed to corrosive conditions.

Our team of chemists, application experts and sales representatives will help match the needs for your specific equipment and environment to the best.

Our innovative solutions are designed to solve corrosion problems ranging from C12-CX environments

Our products have been resistance tested against hundreds of chemicals and in the harshest marine and salt air environments.



**Industrial Tanks and Secondary Containments**  
Industrial steel and concrete tanks and bunds/secondary containments with immersion types and exposure for water and chemicals:

Chemical resistance  
Excellent abrasion resistance  
Impact protection for anticorrosive paint underneath fast coating procedure, quick turnaround, Friction modification





## STPL WASTEWATER TREATMENT PLANTS AND HYDROGEN SULFIDE (H<sub>2</sub>S)

The environment in municipal wastewater treatment facilities, sewers, and vaults is severely corrosive and Subject to continual chemical exposure and heavy abrasion that deteriorate concrete and corrode steel in clarifiers, containment pits, anaerobic digesters, manholes, tanks, and other infrastructure assets.

This results in development of sizable cracks through which wastewater can escape (exfiltration) or groundwater can enter the wastewater system.

One method of refurbishing an aging WWTPs infrastructure is to carry out surface repairs and then apply protective coatings, that are strong, flexible and resistant to chemical attack.

One of the more corrosive by-products of sewage is hydrogen sulphide gas, a flammable, colourless gas that poses a health and life risk to workers

One type of coating that is ideally suited for wastewater treatment equipment is spray applied pure polyurea.

Polyurea systems deliver strong, flexible, abrasion- and chemical-resistant waterproofing that not only bridge existing cracks but can elongate up to 400% without cracking. Because they set and cure rapidly, and can be installed and used in a wide range of temperatures, they also minimize facility downtime.

They are an improvement over traditional cementitious materials, which can be degraded by hydrogen sulphide gas, and epoxies, which have limited elongation capabilities and thus do not effectively bridge cracks.



Polyurea coating reduces the need for continual clarifier maintenance. Typically, clarifier maintenance crews need to use high-pressure power washers for hours to clean solid waste from concrete surfaces.



# AUTOMOBILE

Polyurea vehicle chassis coating is an important application for the automotive sector

You can increase durability by having polyurea in the case of panel vans, turntables, trucks, ambulances, and all other vehicles, which are exposed to the bumps and be constantly damaged.

Polyurea will prevent this situation and extend the life of your vehicle.

The biggest problem with vehicles with open enclosures is climatic impact.

Polyurea protects the vehicle against any kind of danger that may arise due to climatic conditions.



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