
POLYUREA & POLYURETHANE COATINGS - USES + SECTORS

THEME PARK AND DECORATIVE DESIGN

Theme Parks often use polyurea or polyurethane as a protective coating over foam, EPS and other structures to create ornamental building fascia, themed characters, artificial rocks, pools and environments.

WATER PARKS AND PLAYGROUNDS

Molded slides, protective coating of seats for wet/dry amusement rides, tank linings, water containment, aquariums, concrete stadium seats are just a few of the many applications polyureas are commonly used for in the amusement and theme park industry.

SPRAY MOLDING

The use of Polyureas for spray in mold processes are gaining momentum with the advent of low output spray guns. Polyureas have very fast reaction times and are meter mixed and dispensed through plural component equipment. These materials are dry to the touch within seconds after application reducing demold time dramatically.

ARCHITECTURAL DESIGN

Polyurea & polyurethane has much the same uses in architectural design as it does in theme park applications. These coatings are used as a protective coating over foam, EPS and other structures to create ornamental building fascia, themed characters, artificial rocks, pools and environments. There are many uses for movie set and theater stage design as well.

MARINE

Above the water line and below, polyurea can be very effective in protecting steel, aluminum, and fiberglass in a variety of water sport and commercial marine applications. From sound attenuation for fishing canoes, to fish hold liners, to hull protection and bilge liners, polyureas are used in many abrasion, chemical and corrosion resistant marine applications.

AQUARIUM LINING

The ability to form to properly prepared custom shaped walls and themed ornaments make this system desirable. A spray applied, water resistant liner, available in a variety of colors with rapid return to service installation is why facility owners are turning to polyurea.

BRIDGE COATING

The most common applications of polyurea coatings on bridges are over steel and concrete. Major reason these systems are being specified for bridge deck and structure coating around the world.

TANK COATINGS

Polyureas are great for extending the life of older tanks and can offer limited structural characteristics as well. These systems can be applied during primary construction or in a retrofit environment, polyurea goes on fast and stays on long.

TANK LININGS

Polyurea linings are resistant to many chemicals and industrial liquids. With their fast application advantages and ability to adhere to properly prepared substrates, polyureas are ideal for new storage tank primary lining and rehabilitation projects.

ROOF COATING

Polyurea coatings make an excellent protective covering for polyurethane foam roofs. These reflective coatings can

help reduce the amount energy consumption buildings use for heating and cooling. The fast cure time and insensitivity to moisture allows for a quicker installation with a wider application window. Proper surface preparation and substrate condition is always necessary.

WASTE WATER TREATMENT LININGS

Fast cure, chemical and abrasion resistant, concrete primary and secondary containment linings.

MANHOLE AND SEWER LININGS

Polyurea manhole lining is a rapidly growing market due to polyurea's ability to solve many current issues with groundwater infiltration and installation speed. Many municipal and private water systems are in great need of lining and structural repair. With proper surface preparation and substrate conditions, primers and Polyurea can be applied fast to return the cavity to service faster than most competitive systems. Polyurea's ability to form a monolithic, durable liner protects the cavity from sediment and groundwater infiltration into municipal wastewater systems.

FLOORING AND PARKING DECKS

Polyureas are very durable and great for use in areas of high traffic. They are used in clean/dirty rooms as a waterproofing and protective coating from daily pressure cleaning operations.

PIPE / PIPELINE COATINGS AND LININGS

Polyurea Coatings and linings are increasingly being used to protect steel pipes from corrosion. Polyurea has demonstrated its ability to last longer than paint and maintenance services and costs are reduced. Polyureas are also being used to line the inside of water and sewer pipes for infrastructure rehabilitation work.

TRUCK BED LINERS

Polyurea truck bed liners form a durable, water and air-tight, permanent liner for the exterior of pick up trucks, dump trucks and steel containers. These durable, easy to clean and abrasion resistant liners protect utility trucks from their harsh duty environments. They also protect against rust and corrosion from damaging trucks and containers.

FLOORING AND PARKING DECKS

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LANDSCAPE AND WATER CONTAINMENT

Polyurea is often used to contain water for ponds and pool decorations to form a primary containment liner. Proper surface condition is vital when applying over concrete and most other substrates.

RAILCAR LINING AND TRACK CONTAINMENT

Hopper style rail cars have benefited from the strength of polyurea and its ability to resist abrasion. These cars often carry coal, sand, and other abrasive materials. Polyurea can be applied quickly and it will last longer than many other conventional systems.

LINE STRIPING

Polyurea is a very fast set material, which makes it ideal for use in line striping and pavement marking. It can be returned to service for traffic and pedestrian use in only a few minutes.

FUEL STORAGE AND CONTAINMENT

Polyurea is resistant to many fuels and chemicals. It is commonly used in fuel pits and pipeline secondary containment. Polyurea is not resistant to all chemicals and necessary compatibility tests and surface preparation are always required.

What next?

Get in touch today for an estimate or to request prices