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Protective Coatings

Protective coatings are coverings that are intended to provide a layer of protection from anything that could damage the function or integrity of an item. Resistance to abrasion and impact is another factor to be aware of when contemplating metal coatings. A protective coating will often resist the scratching and chipping that can result from the use and occasionally necessary abuse of metal equipment and devices.

Resistant To Abrasion

Where severe wear is a problem Polycoat Products solutions outperform rubber, plastics, and metals. Polycoat Products coatings have strong resistance to abrasion allows for the fabrication of many products using less material, making it a very cost effective production material. Other benefits include lighter weight, longer life, and reduced costs of maintenance and replacement.

Highly Resistant To Impact

While conventional plastic materials tend to become brittle as they become harder, polyurethanes remain more elastic and resist fracture. This great toughness makes Polycoat Products solutions ideal for parts that have to stand up to high impact.

Suitable For High-flex Applications

Under repeated flexing, Polycoat Products coatings and linings will not crack. Polycoat Products offers an important advantage; it retains its strength and toughness regardless of section thickness.

Flexible At Low Temperatures

Polycoat Products coatings have the strong properties that will remain flexible when subjected to cold conditions to -40Â° F. As well, Polycoat Products offers products that are resistant to thermal shock without cracking, or losing their bond.

Won't Sweat Or Deteriorate In Water/Waterproofing

Polycoat Products coatings remain stable, even when immersed in water as warm as 50Â° C (122Â° F) for very long periods, but is not recommended for continuous use in water hotter than 70Â° C (158Â° F). They absorb practically no water - barely 0.3% to 1.6% by weight - and shows negligible swell in volume, even after prolonged immersion.

Electrical Properties

Polycoat Products coatings and linings are excellent insulator. They can be used extensively in potting (protecting the joints in power cables) and other encapsulating applications, where electrical isolation is important.

Resistant To Oil, Grease, And Chemicals

While rubbers and plastics show excellent resistance to certain solvents, oils and chemicals,

Polycoat Products coatings will resist a much wider range of substances.

Radiation Resistant

Of all elastomers, polyurethanes are considered to have the best resistance to gamma ray radiation. After exposure, Polycoat Products retains virtually all of their original flexibility and toughness.

Noise Reduction Capacity

Polycoat Products is ideal for sound-deadening and anti-vibration applications. Depending on its thickness, Polycoat Products will substantially reduce noise and vibration because of its flexibility and extreme resilience.

Benefits

â€¢ 100% Solids Polyurethane, Polyurea, Coatings

â€¢ Spray, roll or brush on

â€¢ Monolithically adheres to virtually any surface

â€¢ Air-tight, Water-tight Seal

â€¢ Extends Equipment Life

â€¢ Elastomeric properties allow for application to surfaces

to: expansion, contraction, movement and flexing

â€¢ Protects Against:

- Abrasion

- Corrosion

- Impact

- Skids (slipping)

- Vibration (noise/sound)

ROI

â€¢ Increased Profitability

â€¢ Reduces maintenance costs, repairs & equipment

downtime

â€¢ Adds years to the life of any surface or equipment

â€¢ Elongation properties eliminate â€“ cracking â€“ peeling â€“

splitting

â€¢ Provides an impermeable barrier against â€“ rust â€“

corrosion â€“ weather â€“ chemical seepage

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Polycoatusa - About Author:
Polycoat Products, headquartered in Santa Fe Springs, California specializes in the manufacturing and custom formulating of high performance, monolithic, protective polyurethanes, polyurea, and polyaspartic coatings and linings for a Waterproofing, Industrial Coatings/Spray Elastomers, Truckbed Liners, Cast Elastomers, Theming and Foam applications.

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