

Contamination

How Contamination Affects Coatings and How to Prevent It



Contamination is a major concern for anyone applying coatings to metal surfaces. It can be caused by a variety of factors, including dust, dirt, oil, and moisture. Contamination can prevent the coating from adhering properly, leading to premature failure.

There are several steps you can take to prevent contamination when applying coatings. First, make sure the surface is clean and free of any contaminants. This may involve sanding, grinding, or cleaning the surface with a solvent. Second, make sure the coating is applied in a clean environment. This may involve using a clean room or a well-ventilated area. Finally, make sure the coating is applied correctly. This may involve using the right tools and techniques.

Cortec Introduces VpCI-386 HT Black

Cortec Corp. has introduced VpCI-386 HT Black, a high heat resistant water-based acrylic silicone primer/topcoat that provides protection in harsh, outdoor unsheltered applications. If conventional paint is used to cover corroded areas, the paint eventually cracks and the areas begin corroding again. But if VpCI-386 HT Black



is applied to areas that are cracked and corroded, it will protect the equipment and months later the areas will not show any signs of further corrosion.

The protective coating delays the reaction of metal ionization and water permeation, which protects against corrosive electrolyte and aggressive environments, thus preventing corrosion. VpCI-386 HT Black provides a fast-drying thixotropic coating that is resistant to sagging or running. This coating offers extended protection for sheltered, unsheltered, outdoor or indoor conditions. Thermally stable when dried from -150°F to 500°F (-78° to 260°C), the coating is ultraviolet resistant and gives optimal outdoor performance without cracking or chipping upon prolonged exposure to sunlight.

The complex mixture of non-toxic, organic inhibitors, and silicone compounds offers excellent outdoor weathering and thermal heat protection. VpCI-386 HT Black has been improved by using a blend of highly corrosion resistant silicone polymers and additives that provides a composite polymer barrier film.

Cortec VpCI-386 HT Black is heat resistant, fast drying, and UV resistant. It can be used as a topcoat/primer and applied via spray, roller or brush. VpCI-386 HT Black protects carbon steel, cast iron, aluminum, stainless steel, galvanized steel and copper.

How to Identify Your Metal Surface

Identifying your metal surface is the first step in selecting the right coating. Different metals have different properties and require different coatings. For example, carbon steel is susceptible to rust, while aluminum is susceptible to oxidation. Knowing the type of metal you are working with will help you choose the right coating for the job.

There are several ways to identify your metal surface. One way is to look at the metal's appearance. Different metals have different colors and textures. Another way is to use a metal testing kit. These kits can identify the metal by measuring its electrical resistance or by using other methods.

Identifying Your Surface Before Coating It



Before coating a metal surface, it is important to identify the surface and check for any defects. This will help you choose the right coating and ensure that the coating will adhere properly. If there are any defects on the surface, they should be repaired before coating.

How to Apply Your Coating Properly



When applying a coating, it is important to follow the manufacturer's instructions. This will ensure that the coating is applied correctly and will provide the best protection. Some coatings may need to be applied in multiple layers, while others may only need one layer.

After applying the coating, it is important to allow it to dry properly. This will ensure that the coating will cure and provide the best protection. Some coatings may need to be dried at a specific temperature, while others may dry at room temperature.