

Choosing the Right Epoxy: A Guide from ITW Performance Polymers

The choice of epoxy adhesive in industrial settings can have a big effect on how long equipment and structures last, how safe, and how efficient they are. Choosing the incorrect epoxy manufacturer can result in less-than-ideal performance, more downtime, and more expensive maintenance. It is critical to know the particular needs of your application and the features of various epoxy solutions. We will help you to make an educated choice in this guide from ITW Performance Polymers.

Recognizing Epoxy Types and Uses

The composition and intended usage of epoxy adhesives allow for the classification of these adaptable materials. For example, double-component epoxies require mixing of the resin and hardener prior to application. These are great in high-stress settings because of their well-known capacity for strong bonding. Conversely, single-component epoxies are cured by heat and find employment in simpler, less demanding applications.

ITW Performance Polymers offers different types of epoxies for different applications. High-performance concrete epoxy adhesive, rubber, and metal repair are available under the Devcon® brand. Because of their tough formulation, these products offer dependable and long-lasting solutions to maintenance and repair work in industries.

Important Considerations:

Integrity of the Substrate

Specialized substrates are bonded with specific epoxies. Rubber, porcelain, steel, aluminum, and unusual metals can all be bonded with ITW Performance Polymers' Devcon® structural adhesives.

Environmental Aspects

The adhesion's performance can be impacted by things like UV radiation, chemical exposure, temperature, and humidity. For long-lasting performance, ITW Performance Polymers offers epoxies made to resist high temperatures, chemical exposure, and other difficult circumstances.

Cure Time and Application Technique

Various epoxy compounds have somewhat different cure times. While some applications might need fast-setting adhesives, others gain from extended time to enable fine modifications. ITW Performance Polymers offers everything from very quick cures like Devcon® 1 Minute Epoxy Gel to more slow cures like Devcon® 2 Ton® Epoxy.

ITW Performance Polymers provides a wide range of epoxy products under the Devcon® name. Some examples are:

- Epoxy Coatings and Fillers: Metal patch and fill compound are made to keep machinery from rusting, abrasion, and wear, therefore increasing its life and lowering maintenance expenses.
- **Structural Adhesives**: Perfect for joining many materials, they guarantee robust and long-lasting bonds in high-stress settings.

• Wear-Resistant Compounds: These materials are used for surfaces exposed to demanding working environments, like those in manufacturing and mining.

For more information on polymer solutions, visit https://itwperformancepolymers.com/

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