



EPOXY EUROPE

NEWSLETTER

EPOXIES AND THE POWER GRID - KEEP CALM AND INSULATE



Energy is something we need every day - electricity powers our homes and keeps industries operating. Reliable and efficient energy distribution is key to meeting our basic needs. However, do you know how we ensure the safety of energy infrastructure?

One way is to use epoxy resins – versatile materials with unique properties. Epoxy resins contribute to the safety of energy distribution in several applications, particularly in electrical and electronic. They provide electrical insulation, stand up to heat, resist fires, absorb shocks, and add strength and chemical resistance while keeping things tightly sealed. All of these functions ensure that our energy distribution system (or power grid) stays safe and reliable every day, every minute, and every second.

Epoxy Insulation Keeps Electrical Components Safe

Epoxy resins are excellent insulators with various possible applications. They are used as an encapsulating and coating material that keeps

electrical components and connections safe by preventing electrical arcing, short circuits and sparks. Epoxies also protect against moisture and contaminants, reducing the risk of electrical breakdown and corrosion.



Heat Resistance of Epoxies

Energy distribution components, such as transformers, often generate significant heat and epoxy resins can handle it very efficiently. Epoxy resins excel in thermal stability - they can withstand high temperatures without degrading. This is the next crucial property for use in energy distribution systems. Thanks to epoxies, the systems stay stable, safe and functional even under demanding temperature conditions.

Fire Resistance of Epoxies

Some epoxy resins are specially designed to be fire-resistant or flame-retardant. They delay the spread of flames, reduce smoke, and thus add precious time in case of a fire to respond and evacuate people safely. Epoxy resins help reduce the risk of fires in electrical panels, switchgear, and other energy distribution equipment and limit the fire's ability to spread to other parts.

Mechanical Strength and Durability of Epoxies

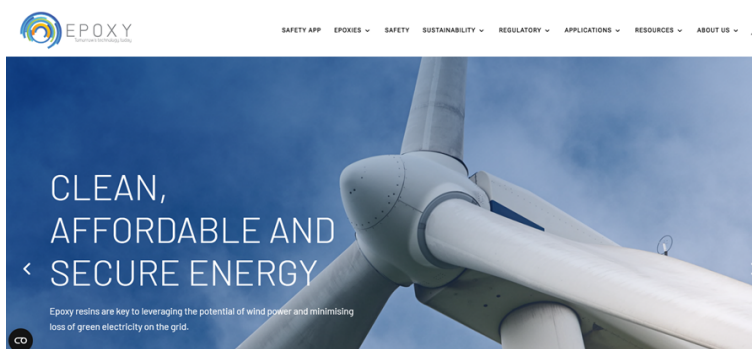
Epoxy resins offer excellent mechanical properties, such as load bearing and high tensile strength. They reinforce and protect energy distribution infrastructure from wear and tear, environmental stresses and physical damage. Epoxy coatings and composites extend the durability and service life of energy distribution components, reducing the need for maintenance, repairs and replacements, thereby enhancing safety and keeping operation costs low.

...

Want to know more about epoxies' role in ensuring the reliability and safety of the electrical grid that powers the world?

[READ THE FULL ARTICLE HERE](#)

EPOXY EUROPE'S NEW WEBSITE



Say hello to our new website! Easier to navigate and even more informative.

From detailed explanations of the science behind epoxies to deep dives into use cases and comprehensive safety instructions, our new website is the one-stop shop for everything epoxy.

Learn more about epoxies, their impact on the European economy, and their potential for fueling Europe's green and digital transitions!

[VISIT OUR NEW WEBSITE](#)

EPOXIES, THE GREEN DEAL & THE EU ELECTIONS

With the EU elections right around the corner, arguably the biggest achievement of the outgoing mandate has been the agreement on the EU Green Deal.

The legacy will have to be continued by the incoming policymakers as climate change challenges continue to demand unyielding and persistent action.

Here, epoxies will play a central role, enabling key technologies at the forefront of the Green Revolution.

Our video below outlines epoxies' role in facilitating central aspects of the EU Green Deal





STAY IN THE LOOP

Too busy to spend time on social media lately? We have your back! Here are our top posts of the month, so ***don't miss the chance to like, comment and share!***

 **Epoxy Europe** 1,162 followers 1w • 

In places like hospitals and food processing plants, hygiene is paramount. **#Epoxy** coatings shine in these challenging environments, enabling the use of powerful cleaning agents for spotless cleanliness. Their resistance to abrasion and wear ensures longevity, perfect for high-traffic spaces.

 **Epoxies & construction: a flooring revolution**
epoxy-europe.eu • 1 min read

 **Epoxy Europe** 1,162 followers 1w • 

In transport, lighter parts mean lower fuel consumption, reduced emissions and operating costs. By extending the life of vehicles, they conserve energy and resources, leaving a smaller carbon footprint.

 **Epoxies, automotive & transport**
epoxy-europe.eu • 1 min read

Keep up with what's happening in the world of epoxies!



VISIT OUR WEBSITE

**Epoxy Europe complies with the General Data Protection Regulation. You can consult our Privacy Policy by clicking on this [link](#).
Unsubscribe by clicking on the link at the bottom of this email.**

[Preferences](#) | [Unsubscribe](#)