

The Holiday Edition of Epoxy
Europe's Newsletter

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EPOXIES AND NET ZERO TECHNOLOGIES
*Paving the Road Towards a Decarbonized
World!*

Epoxies are durable and very versatile materials which have seen broad adoption across many industrial and professional uses since their invention during the 40's of the last century. It does not come as a surprise then that epoxies will also play a major role in paving the road for net zero technologies towards a decarbonized economy and society!



We all know some of the mainstays of our transition to **renewable technologies** such as wind turbines and photovoltaic panels. Epoxies provide the tough polymer matrix materials for

rotor blades and the engine nacelles. Epoxy coatings are protecting the steel towers from the onslaught of harsh elements, especially in unforgiving marine offshore environments. The generated electricity is then fed into the grid (electricity distribution system) which is kept in good shape by reliable cable couplings, switch gears, and transformers all made with insulating and highly heat-resistant epoxy materials.

In e-mobility, epoxies are used as insulating cell potting materials, especially for high voltage batteries, and in their fiber-reinforced variant protect battery cell packs as shock-absorbing cage structures from impact and damage.

The burgeoning hydrogen infrastructure also gets a helping hand from reliable epoxies. They are used as chemically resistant adhesives in alkaline electrolyzers with excellent adhesion to a variety of substrates such as the fuel cell membrane. Aside from this essential function, epoxies are used as potting resins for air compressors to achieve a higher power density in the fuel cell and for hydrogen recirculation blowers.

Even **heat pumps** rely on epoxy-based protective coatings on their evaporator and condenser fins for high temperature and weather resistance.



Curious about the contribution of epoxies to other crucial green technologies, including carbon capture and more?

READ THE FULL ARTICLE HERE

HISTORIC COP28 AGREEMENT - The Role of Epoxies in the Future Ahead

After almost 30 years of waiting, the UN's Climate Change summit has finally forged an agreement between more than 190 countries to transition away from fossil fuels in this decade.

While the commitment, like all UN deals, is not legally binding, it sends a strong message to governments, investors, and companies around the world about what the future will look like. And in this future, epoxies will be vital.



From mobility, to construction, to energy, to ICT, epoxies play an essential role in countless industries at the forefront of the green transition. Take a look at the animation below to see how epoxies will enable the future laid out in COP28.



CEMENT CO-PROCESSING - A Sustainable Solution for End-of-Life Composite Recycling

Composite materials - a combination of reinforced fibres and epoxy resins are known for their durability and resistance properties. This is why they are often used across various sectors, including wind and infrastructure markets.

However, recycling end-of-life composite materials has been technically challenging. Cement co-processing offers a sustainable and circular solution to this challenge by reducing the need for raw materials in cement manufacturing and the replacement of fossil energy sources.



Epoxy Europe together with six other industry associations working on increasing the circularity of composite materials have published a statement highlighting the important role cement co-processing in treating end-of-life composite materials.

[READ OUR FULL JOINT STATEMENT HERE](#)

LAST MINUTE CHRISTMAS SHOPPING?

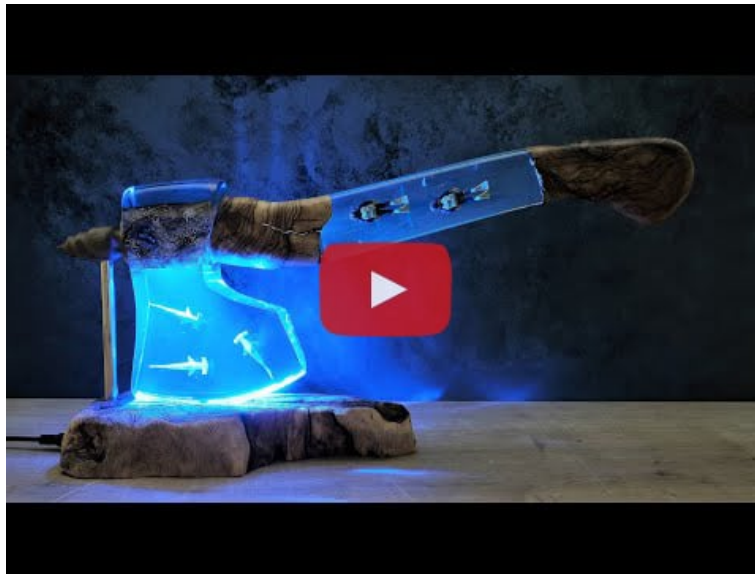
Bring some creativity to the season of giving with DIY epoxy gifts!

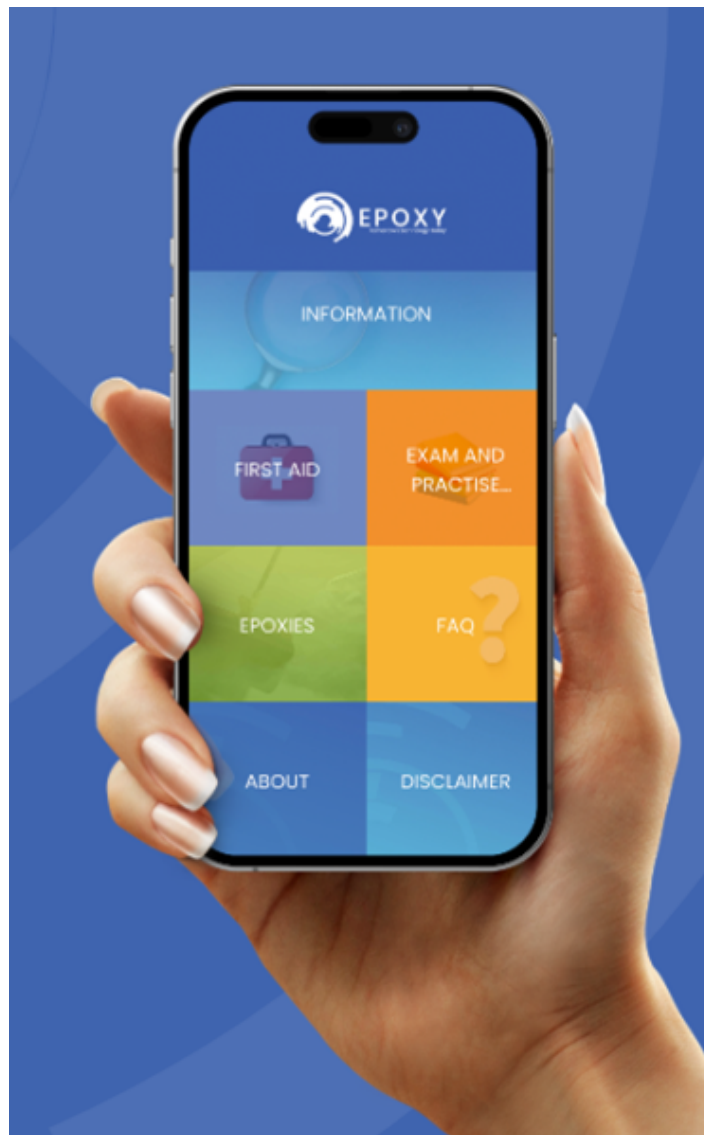
We've all been there - the disappointed faces of your loved ones flash before your eyes as you remember that the holidays are just a week away and your present shopping isn't nearly done.

This holiday season try skipping store-bought presents and add a personal and creative touch to

your gifts with DIY epoxy projects!

From handmade epoxy jewellery and other types of arts and crafts to a stunning epoxy lamp, get some inspiration from the videos below.





However, no matter how easy it may seem, make sure to always follow the appropriate safety precautions when handling epoxy resins.

Fortunately, staying safe with epoxies has never been easier. Our epoxy safety app covers all the basics you should know and lets you test your knowledge through a variety of quizzes. Visit the app [here](#) or scan the QR code below.



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 1,109 followers 2mo • 🌐

Epoxy resins are 🚀 to the transition to a more sustainable mobility, with lightweight yet robust bicycles 🚲, improved aerodynamics for trains 🚆, higher energy density for e-cars' battery packs ⚡, and reduced fuels consumption where electrification is difficult 🔋


#MobilityWeek #MixandMove #SaveEnergy



Epoxy drive the transition towards a more sustainable mobility
epoxy-europe.eu • 1 min read

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#Epoxy resins are used in #EV battery packs, enabling higher energy density and better thermal management, while improving the overall energy efficiency of the vehicle by making it lighter. 🚗 ⚡



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





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