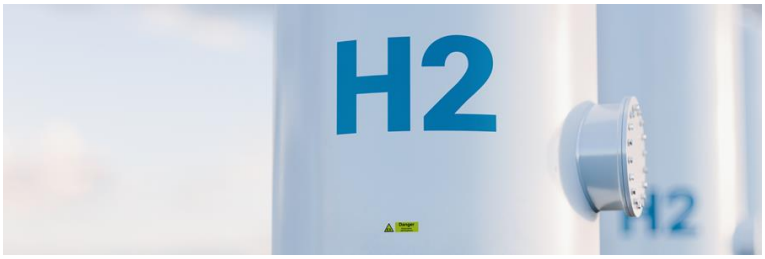
EPOXY
Tomorrow's technology, today

EPOXY EUROPE NEWSLETTER

NEW SOLUTIONS FOR HYDROGEN PRESSURE-VESSEL MANUFACTURERS



Epoxies offer innovative solutions that support manufacturers in the design and production of composite pressure vessels for hydrogen storage and transportation. This includes high-performance resin systems for hydrogen pressure vessels.

All eyes on hydrogen

The 2020s will be a decade of change, with governments worldwide implementing ambitious hydrogen strategies to help meet emissions targets. Hydrogen costs are expected to drop significantly as production capacity increases, enabling hydrogen-powered fuel cell vehicles (FCEV) to become a cost-competitive, zero-emission solution for applications requiring long-range and fast charging times.

Beyond road vehicles, hydrogen is also generating interest in the aerospace, rail, and maritime sectors. Composite pressure vessels will play a key role in hydrogen storage, whether within vehicles or for transport and distribution, in order to build a cost-competitive hydrogen infrastructure.

Supporting manufacturers worldwide

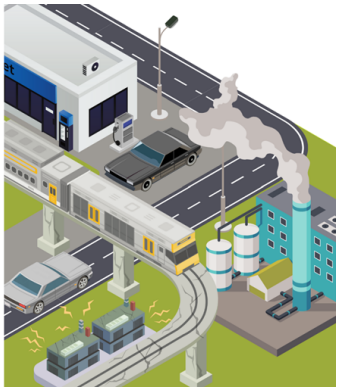
Epoxy resins are key solutions for filament-wound composite type 3, type 4, and even type 5 pressure vessels. With a comprehensive range of epoxy-based resin systems, epoxy solutions are known worldwide for material performance, efficient manufacturing and increased productivity.

Want to know more about the regulatory landscape, stringent requirements and innovative processes, click to read our full article below!

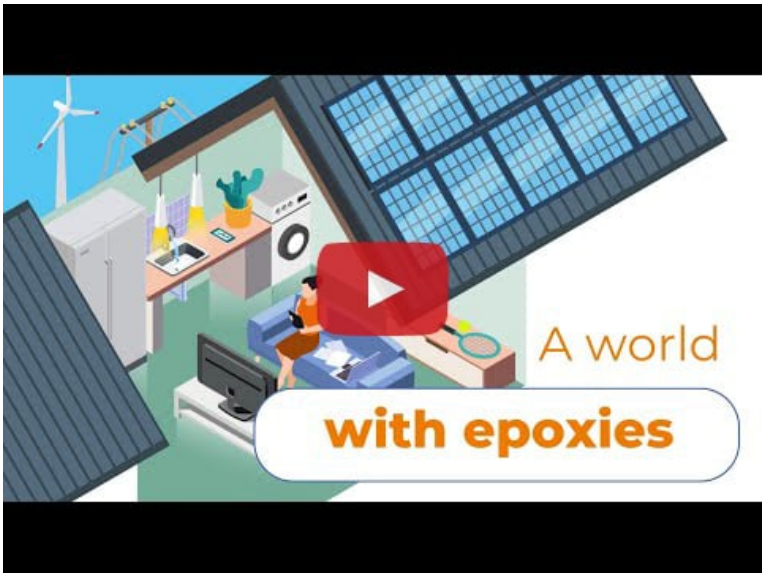
READ FULL ARTICLE HERE

What would the world look like without epoxies?
You're about to find out!

Did you know that, in a world without epoxies, many of our home appliances would gather rust more easily and would need replacement more often? Or that large city buildings would deteriorate faster? Epoxy Europe has developed 'A World of Epoxies', a series of animations to showcase the contribution of epoxy resins to a green Europe.

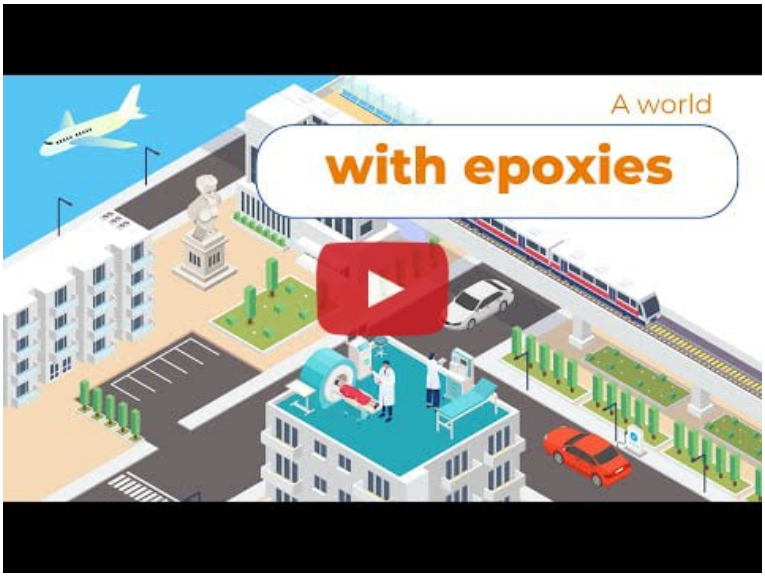


Each animation covers a different scenario, from a home setting to a big city landscape. It points at different objects and infrastructures to show how epoxies enable or improve the performance of that concrete item, and how it would deteriorate or disappear without epoxies.



A cozy home

Rusty water pipes, cracked kitchen surfaces, damaged electronic devices... a home without epoxies looks dark, inefficient and deteriorated. Epoxies enable green energy technologies like solar panels, high-performance sports materials, clean surfaces, and play an important role in many other home applications.



A big, busy city

Many of the infrastructures we see in towns and cities, such as tall skyscrapers, massive bridges or great historical monuments would deteriorate much faster without epoxies. They also allow for important technologies in public services. For example, they are critical for the functioning of MRI machines in hospitals.

A transport & energy landscape

A transport industry without epoxies would have less electric vehicles and older, less sustainable trains, cars and planes. Renewable technologies would also be less effective, making the transition from fossil fuels harder.

Highlighting the epoxies' applications that are around us on a daily basis, the animations display how epoxy resins, even if they go unnoticed, are key contributors to the EU Green Deal. Epoxies enable clean and affordable energy, sustainable mobility, and a resource-efficient construction industry.

The first video of the series has been published in our LinkedIn and X accounts. Follow us and don't miss out on the coming posts of the series!

Our top posts on LinkedIn

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!***

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A game-changer for composite material #recycling, cement co-processing revolutionizes the treatment of end-of-life composites like #epoxies ♻

But while technologies enabling today's #CircularEconomy already exist, we are still lacking a supportive legislative framework 🇪🇺

WindEurope I The European Composites Industry Association: EuCIA I Cefic (European Chemical Industry Council) UPVE I Glass Fibre Europe I European Boating Industry I CEMBUREAU

Cement co-processing: a sustainable solution for end-of-life composite materials
epoxy-europe.eu • 2 min read

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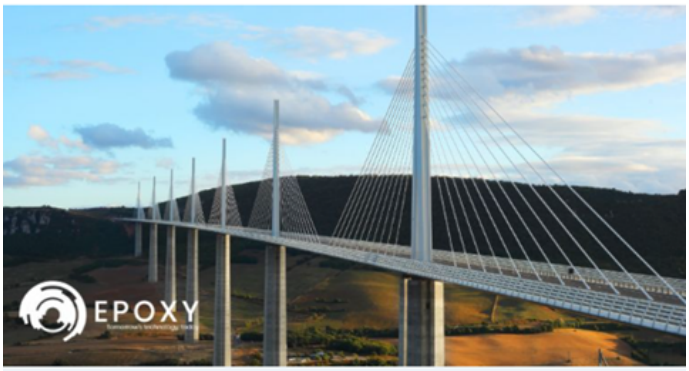
Did you know that #epoxy plays a crucial role in various industries? From construction to electronics, epoxy offers exceptional strength, durability, and versatility. Discover now the wide-ranging applications of #epoxies!



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