

CO₂

PEOPLE



Magni goes green

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Credit: Bordinthorn Loyrat

As a manufacturer specialising in coatings, Magni Group designs coating systems which extend beyond just corrosion resistance – all of which offer customers an array of options to optimise any design. With a shift in the industry to a more sustainable future, Magni is further adapting its products to meet customer needs.

When it comes to sustainability endeavours, Magni has sought to eliminate harmful materials, such as Volatile Organic Compounds (VOCs), solvents and PFAS, to promote more environmentally friendly practices.

"The fastener and fixing industry is a critical component of global manufacturing, construction and infrastructure. Our products often go unnoticed, but they play a key role in the integrity and longevity of assemblies – from vehicles and buildings to renewable energy systems," outlines Magni. "As demand grows for more environmentally responsible products, the pressure is on our industry to ensure materials, coatings, and production methods, align with global sustainability goals. This includes reducing carbon emissions, minimising toxic chemical use (such as PFAS or hexavalent chromium), as well as improving recyclability – all of which contribute to a more circular economy."

The company adds: "Sustainability in our business means building long-term value by integrating environmental stewardship, social responsibility and economic resilience into every aspect of our operations. It's not only about reducing our environmental footprint, but also about creating a more efficient, responsible, and future-ready organisation. In the fastener and fixing industry, sustainability means producing high performance products while minimising resource use, eliminating waste, as well as ensuring the safety and well-being of people and communities."

To minimise its impact on the environment, Magni has spent years removing hazardous components from its products, developing fastener, stamping and component coatings systems that are water reduceable for environments which require low VOC with low or no cure options. Magni has also introduced solvent-borne systems to minimise layers and material usage. Additionally, PFAS and

hexavalent chromium, both materials which have been proven toxic, have been removed from Magni's coatings.

"Our projects have given us the opportunity to work closely with our customers to educate them on how they can leverage our performance attributes to drive their sustainability efforts further," comments Magni. "Our products offer the advantage of longer service life, as the carbon investment for replacement parts is delayed."

To further ensure the environmental neutrality of its processes, Magni monitors all of its coating systems as well as its water usage during manufacturing processes, all to confirm the Group's alignment with current carbon emission regulations that customers now seek. "We've seen a growing demand from OEMs and Tier 1 supplies concerning sustainability," the business confirms. "These include requests for full material disclosures and declarations of PFAS, REACH, and RoHS compliance. Life Cycle Assessments (LCAs), Environmental Product Declarations (EPDs), and verification of ISO 14001 certification are also increasingly being asked for by our customers."

To meet these new demands, Magni has processes in place to ensure compliance not just within the Group, but also amongst Magni's supply chain as a whole, requesting that suppliers meet the OEM requirements of their regions, whilst also working closely with them to help reduce processing to make sure there are no duplicate efforts when creating coatings.

"Furthermore, we work closely with design engineers to help to educate them on the performance attributes of our coatings and how they can enable their components to be designed with less material and energy," highlights Magni. "Our PFAS-free coating systems are better in corrosion, friction, and adhesive, in comparison to our current generation. This continuous improvement of our operations proves our commitment to meeting the needs of our customers and their respective markets."

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Adhesion