

Colombes, 27<sup>th</sup> February 2024

## ARKEMA AND SIREG GEOTECH REVOLUTIONIZE CONCRETE REINFORCEMENT

Arkema and Sireg Geotech have developed the world's first bendable composite rebar, thus providing an innovative alternative to traditional steel reinforcement. Based on Arkema's Elium® resin, Sireg's Glasspree® TP bars represent a breakthrough for the construction sector.

Sireg's fiberglass bars using the Elium® thermoplastic resin have double the tensile strength of steel. They stand out by their remarkable light weight (75% lighter than steel), their corrosion-proof property, their chemical resistance, and their dimensional stability in the event of extreme thermal changes, while also being fully recyclable. They contribute to the energy efficiency of structures, and significantly reduce the carbon footprint of maintenance activities.

The Elium® thermoplastic resin ensures a major gain in productivity as well as greater flexibility for the supply of composite reinforcement, thus improving the overall profitability of construction projects. The range of applications of Sireg's Glasspree® TP bars is huge: construction, maintenance, repair of buildings, bridges, tunnels, as well as marine and coastal structures, which demonstrates their adaptability.

*“Glasspree® TP bars were developed through cooperation between Sireg and Arkema. They represent an innovation in the reinforcement of concrete structures as well as a new benchmark in terms of safety, reliability, and sustainability”* says Sonja Blanc, CEO Sireg.

For bridges these materials ensure an estimated service life of twice that of steel (i.e. 100 years), lighter weight, and superior corrosion resistance in a saline environment, lower lifecycle costs, and a lower impact on the environment.



### About SIREG GEOTECH

SIREG GEOTECH is an Italian company founded in 1936, specialized in the transformation of thermoplastic and composite materials (glass-, carbon- and aramid-fiber types) for geotechnics and civil engineering. Its products are marketed in over 70 countries around the world, and are used for soil reinforcement and consolidation, tunnel and subway construction, renovation of historic or damaged buildings, as well as in new civil and road construction projects.

Building on its unique set of expertise in materials science, Arkema offers a portfolio of first-class technologies to address ever-growing demand for new and sustainable materials. With the ambition to become in 2024 a pure player in Specialty Materials, the Group is structured into 3 complementary, resilient and highly innovative segments dedicated to Specialty Materials - Adhesive Solutions, Advanced Materials, and Coating Solutions - accounting for some 91% of Group sales in 2022, and a well-positioned and competitive Intermediates segment. Arkema offers cutting-edge technological solutions to meet the challenges of, among other things, new energies, access to water, recycling, urbanization and mobility, and fosters a permanent dialogue with all its stakeholders. The Group reported sales of around € 11.5 billion in 2022, and operates in some 55 countries with 21,100 employees worldwide.

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