“Teijin Aramid’s materials are helping us to achieve the highest safety levels in all conditions.”

Kostas Koronakis, CEO Koronakis
The mooring line industry faces growing safety challenges, as increasing shipping volumes and ship sizes put mooring lines under greater pressure. What’s more, traditional steel and UHMPE lines are not providing the safety levels that their operators deserve. To create safe mooring lines, leading manufacturer Koronakis developed an aramid solution made from Teijin Aramid’s Technora® para-aramid fiber. Koronakis has been working with Teijin Aramid for over a decade to deliver unprecedented safety levels in its mooring lines.

**Safety first at Koronakis**

Since 1967, family-owned company D. Koronakis S.A. has manufactured ropes for use in several industries and continually strives to improve their materials for greater safety. In 1996, they became the first company in the world to produce a 24-strand rope with their Kapa rope, and in 2006 they developed the ‘Kapaneema Plus – Kapa Korona’ ropes to successfully replace steel wire ropes. A decade ago, they began integrating Technora® into their mooring lines, enabling new levels of safety.

“At Koronakis, all our products are designed to achieve the safest possible conditions for our end users. For this, we need quality raw materials, innovative design and quality control at all stages of production. Teijin Aramid’s materials can provide this, helping us to achieve the highest safety levels in all conditions.”
One step further with Teijin Aramid

In particular, many of Koronakis’ mooring lines are used on large ships in the liquified natural gas (LNG) industry. Each of these ships has 18 275-meter long mooring lines, which have conventionally been made from steel. This is dangerous for the ship’s crew because steel has a high risk of breaking under high pressure, which can result in a ‘snapback effect’ causing injury or even death. “Our end-users deserve greater safety and more flexible materials like Teijin Aramid’s Technora® offer them complete peace of mind,” adds Kostas.

“One long experimental period with UHMPE fibers, we wanted to go one step further for safety. Technora® aramid fibers allow for greater longevity and temperature stability in our ropes without compromising on flexibility. Unlike UHMPE fibers, ropes made from Technora® do not suffer from creep. Their unique properties make them ideal for the challenging mooring line industry.”

Aramid solutions: The future for safety

“Our partnership with Teijin Aramid began about 10 years ago and has been very successful,” says Kostas. “We’ve been impressed with Teijin’s technical support and research on the aramid fibers, particularly in comparison to UHMPE fibers. With increasing demands on ships, aramid solutions are the future of the mooring line industry. Because of this, we hope to invest in aramids and look forward to a fruitful and long-lasting collaboration with Teijin Aramid – and if possible, expanding our partnership in the future. With Teijin Aramid, we can continue to put safety first!”