



JOTUN

Jotun Protects Property

Breakthrough technology

The ultimate ice-breaker



Marathon | IQ2

A breakthrough in ice technology

Marathon IQ2. The unrivalled combination of smoothness and toughness through ice.

Polar regions offer the most extreme, harsh conditions, resulting in severe, continuous impact and abrasion on vessels operating in these waters. Standard epoxy coatings and ice coatings build up a roughness reducing hydrodynamic efficiency. Marathon IQ2 offers not just unsurpassed levels of smoothness but toughness to ensure the smoothness lasts. The result is hydrodynamic efficiency, unequalled anywhere in the world.

Marathon IQ2 can deliver approximately 4.5% improvement in hydrodynamic efficiency beyond current ice coatings on the market.



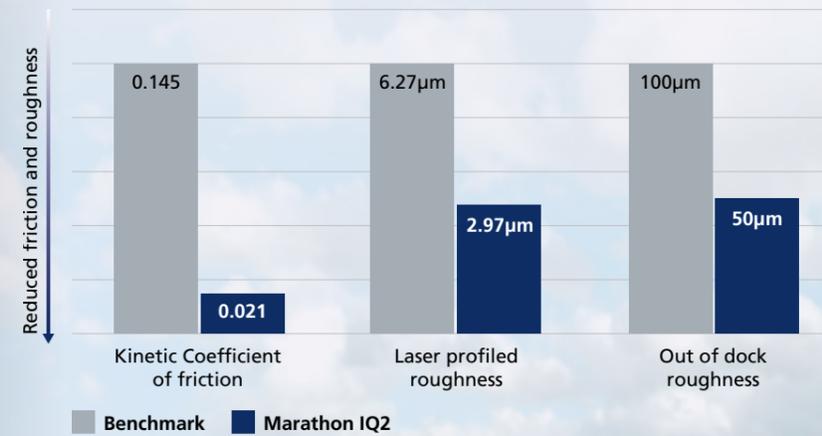
- Excellent ice slip properties**
- Extended duration of smoothness**
- Applicable by single-feed standard airless spray**
- Phenol-free and solvent-free**

The greener choice

Marathon IQ2 makes sense in every way. Not only is it the toughest and smoothest coating for ice-class vessels, it's also phenol-free and solvent-free, making it the non-toxic, environmentally friendly choice of coating for ice navigation while also reducing VOC emissions during application.



Superior Smoothness



Ice Types	Marathon IQ2	Benchmark
Fresh water	0.012	0.088
Salt water	0.014	0.064
FGX model	0.021	0.145

“The measured friction of Marathon IQ2 is significantly lower compared to standard coatings for ice-going vessels and based on the measurement results, it is expected to have **improved performance contributing to reduced total resistance of a ship in ice** when compared to these coatings.”

Aker Arctic Technology

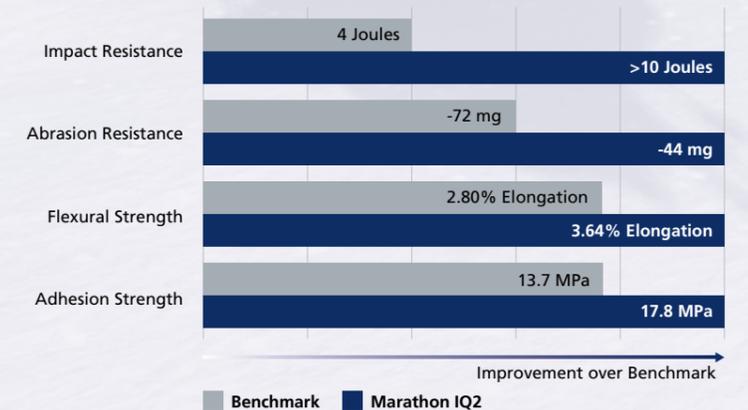
Extreme Toughness

“Marathon IQ2 holds excellent abrasion resistance and ice friction properties that will ensure enhanced performance and efficient propulsion through ice in Arctic environments”

DNV GL

“Marathon IQ2 is recognized as an abrasion resistant ice coating for ships intending to navigate in ice conditions”

Lloyd's Register



Improvement over Benchmark

■ Benchmark ■ Marathon IQ2

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