



ZPMC switches to Avantguard® for better anti-corrosive performance

ZPMC is the world's largest manufacturer of cargo handling equipment, including port terminal cranes. These cranes are used for loading and unloading containers, and they need a heavy-duty anti-corrosive coating system to protect them from the harsh dockside saltwater atmosphere. When ZPMC was asked to produce four super-post-panamax container cranes for delivery in Europe, it decided to switch to Hempadur Avantguard 750.

ZPMC had been using one of our zinc-rich epoxy primers to protect its cranes, and was pleased with the coating's performance. But only around one-third of the zinc in a traditional zinc epoxy has an anti-corrosive effect. Avantguard technology activates all of the zinc in the coating, which significantly improves the coating's anti-corrosive performance and mechanical strength, while ensuring it remains easy to apply.

By switching to Avantguard, ZPMC expects to benefit from simplified application procedures, longer asset life-cycles and reduced maintenance.

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ZPMC shifts to Avantguard

At a glance

Customer	Shanghai Zhenhua Heavy Industry Co., Ltd. (ZPMC)
About	ZPMC is the world's largest manufacturer of cargo handling equipment, from cranes and bulk coal handling machinery to steel bridges and offshore products. It is headquartered in Shanghai and has eight production units in China.
Coating system	Hempadur Avantguard 750
Application	Airless spray, touch-up with roller and brush

The challenge

Port terminal cranes need a robust coating system to protect them from the harsh saltwater atmosphere. ZPMC had been using one of our zinc-rich epoxy primers to protect its cranes, and was pleased with the coating's performance. However, the company wanted an even longer-lasting solution when manufacturing four super-post-panamax container cranes for delivery in Europe.

The solution

We recommended a system based on Hempadur Avantguard 750, an advanced zinc epoxy that uses Avantguard technology to improve anti-corrosive performance. Our Technical Service team in China worked closely with ZPMC when the super-post-panamax container cranes were coated at the start of 2015. ZPMC's applicators were particularly pleased with the coating's ability to tolerate high dry film thicknesses without cracking or blistering, which ensures they remain easy to apply even if application conditions are not ideal.

The cranes were transported to their final destination in Malta in the middle of 2015. We inspected the cranes upon arrival and found the coating system in perfect condition. As part of our agreement with ZPMC, we will continue to monitor the performance of the system over the coming years. ZPMC is convinced that its customers will benefit from the long-lasting and more robust protection offered by Hempadur Avantguard coatings.



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