



Premium protection for trade in the Atlantic

The Decal Group once again trusts Hempel products for the long-term protection of its new storage tanks in the Port of Huelva, Spain.

Located on the Atlantic coast, Decal Spain's Huelva terminal is an intermodal logistics hub for maritime, rail and highway cargo. When Decal needed to increase capacity at the terminal, it decided to add four new storage tanks. This would bring the terminal's storage capacity up to 600,000 m³, making it the largest of the Decal Group's global facilities.

Our products have successfully protected the other 48 tanks at the terminal since it was constructed in the 1990s and we were asked to supply coatings for the 20,000 m² of new steel. Our solution was based on Avantguard 750[®], a high-performance zinc-based primer, ideal for fast application and long-term corrosion protection.

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Avantguard 750 provides durable protection for storage tanks

At a glance

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| End customer | Decal Group, a constructor and operator of warehousing facilities for petroleum products, chemicals and gases |
| Applicator | Apifema, a Spanish anti-corrosion treatment specialist |
| Project | New storage tanks at Decal Spain's Huelva terminal |
| Coating system | Primer: Avantguard 750 (60 microns) Intermediate: Hempadur 47300 (150 microns) Topcoat: Hempel's Polyenamel 55102-20450 (50 microns) |



Decal is an Italian company that constructs and operates warehousing facilities for the storage and handling of petroleum products, chemicals and gases. It was established in 1961 in the port of Venice and currently works in five countries: Italy, Panama, Russia, Brazil and Spain. Since 1990, Decal has operated two terminals in Spain, at the ports of Barcelona and Huelva.

The challenge

Due to its excellent location, Decal Spain decided to increase storage capacity at its Huelva terminal. The project included constructing four new steel tanks and improving three berths – a total investment of more than EUR 22 million. Apifema, a corrosion protection specialist based in Jaén, was tasked with applying the protective coatings to the new tanks.

The solution

Hempel provided a three-coat system for the storage tanks, including our Avantguard 750 primer, a two-component epoxy that incorporates our activated zinc technology to ensure very durable long-term protection for steel. This was followed by a coat of Hempadur 47300, a two-component epoxy used as an intermediate coat for in-shop applications when short repainting intervals and handling times are required. For the topcoat, we specified Hempel's Polyenamel 55102-20450, an acrylic polyurethane two-component gloss that delivers a robust glossy finish in highly corrosive environments.

Discover Avantguard at www.hempel.com/avantguard

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Thanks to this coating system, Decal Spain can ensure its customers benefit from reliable storage and protection of their products on the shores of the Atlantic.

Triple Activation with patented Avantguard® technology



In order to achieve full zinc utilisation, we combine zinc, our proprietary activator and hollow glass spheres. Avantguard is also the only zinc-rich primer to use all three methods of corrosion protection:

Barrier effect | Inhibitor effect | Galvanic effect

Triple Activation with patented Avantguard technology provides superior protection, durability and sustainability compared to standard zinc-rich primers. So you save on application and maintenance costs, while your assets last longer.