AkkzoNobel’s International® protective coatings have a strong and unrivaled track record in offshore projects, which includes the world’s largest Floating Production Storage Offloading (FPSO) vessels. Pardvor, also from Total. After successful completion, Total once again selected AkkzoNobel, with its International® coatings, as the most qualified supplier to meet all of the technical and practical requirements for the CLCV project.

“We’ve worked with AkkzoNobel and its International® coatings for many years and know they would be able to deliver upon our requirements for coatings for the world’s largest FPSO” said A.Kim, General Manager of Coating Design Group for Offshore and Marine Division at DSME.

To protect this gigantic FPSO, Total has chosen a number of International® protective coatings, including Interzinc®, Intergard® and Interthane® for the topside module structures, while InterShield® 300 was selected to provide long term barrier protection to the ballast tanks and crude oil tanks. The International® InterShield 300 coating provides unique abrasion resistance with an aluminum content >9%. It has an extensive track record in the industry in asset protection to offshore structures including fixed platforms, semi-submersibles, drill ships, as well as on FPSOs, making it the ideal coating for the CLCV FPSO.

In addition to InterShield 300 and other International® coating products, 640,000kg (640 tonnes) of their Chartek® 7 passive fire protection was selected. Chartek 7 is known in the industry for being one of the most dependable intumescent epoxy passive fire protection solutions for over 40 years and was applied to the CLCV FPSO to ensure maximum protection in the event of fire.

“Being the largest FPSO in the world, it was very important that the CLOV FPSO was coated with the highest quality coatings and passive fire protection” said AkkzoNobel’s Protective Coatings Sales Manager for Japan and Engineering Sales and the Technical Service Manager who met with the plant’s Maintenance Manager to assess the damages and provide technical guidance. Since fading and durability were the primary concerns, the team recommended AkkzoNobel’s International® protective coating polysiloxane topcoat, Interfine® 1080. The topcoat is formulated for superior UV protection, high gloss color retention and flexibility. Paired with primers also from the International® range, the coatings system would provide a strong and aesthetically attractive maintenance solution for the chemical plant.

According to the Sales Manager, “Interfine 1080 was an ideal choice because it’s a single pack product, which is both very easy to apply and highly durable. This means lower costs to apply, while actually extending the maintenance lifecycle for more than 10 years.”

Extreme makeover
The Maintenance Manager immediately began seeking a more robust and longer-lasting coating option. Representing AkkzoNobel’s International®, Protective Coatings Sales Manager for Japan and Engineering Sales and the Technical Service Manager who met with the plant’s Maintenance Manager to assess the damages and provide technical guidance. Since fading and durability were the primary concerns, the team recommended AkkzoNobel’s International®, protective coating polysiloxane topcoat, Interfine® 1080. The topcoat is formulated for superior UV protection, high gloss color retention and flexibility. Paired with primers also from the International® range, the coatings system would provide a strong and aesthetically attractive maintenance solution for the chemical plant.

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Lasting beauty
Interplus® 356 primer was applied by skilled applicators to the hydrant system’s carbon steel piping and Intergard® 361 to the galvanized steel portions. Interfine® 1080 was then spray-applied over both primers. In all, 6,400L (1,408gal) of International® protective coatings were used to restore the structural steel to its former glory and the hydrant system’s glossy red luster. Plant owners were so pleased with the results; the second phase of recoating work was awarded in April 2014 and will continue over the next five years throughout the plant as part of a planned maintenance schedule.

“Fire Office Inspectors who make regular visits to the plant look carefully at the condition and beauty of the facility’s overall maintenance,” said the plant’s Maintenance Manager. “Now that all fading and damage to the hydrant piping have been eliminated, they have confidence that the entire facility is in top shape.”

AkkoNobel