



**Desmodur® Desmophen®**

## **A polyurea case story:** Quicker application process and high protection

How aliphatic polyurea elastomeric coatings helped to meet tight project timelines and provide durable protection for one of the largest man-made lagoons



## Man-made Lagoons in Dubai, United Arab Emirates

The city of Dubai in United Arab Emirates is constantly expanding. Spread across 1,100 acres of lush greenery and centered around the man-made lagoon is the Mohammed Bin Rashid Al Maktoum City – District One. An important part of the visual appeal for MBR city is the iconic lagoon. The lagoon concept required a highly decorative & bright seamless lining system for the entire shoreline, podiums and walkways. With tight timelines being of most importance for the lagoon launch in 2020 the entire application of 20,000 m<sup>2</sup> had to be finished within six months.

“The ease of application and fast cure characteristics at ambient temperature made the aliphatic polyurea a perfect choice for this project” said Belvin Marx, General Manager at DELTA COATINGS, based in Dubai, UAE, a manufacturer and solution provider for construction coatings.

Furthermore, waterproofing of the concrete, durability and UV stability were critical requirements. Thus, with heavy foot traffic and splash zone areas, a thick elastomeric aliphatic polyurea coating system, without the need for a mid-layer could reduce the risk of showing patches or delamination of the topcoat and also speed up the overall application. Another important benefit of the polyurea technology is the resistance to mechanical damages. Polyurea coatings based on Desmodur® and Desmophen® raw materials ensure optimum balance between flexibility and tensile strength, while yielding excellent hardness and abrasion resistance to withstand the daily harsh scraping and brushing of the sand & dust from the coated areas.

For years to come the residents of MBR city will enjoy beautiful walkways along the lagoons. This will demonstrate the capacity of polyurea technology based on Desmodur® and Desmophen® from Covestro brought to market application by an experienced construction coatings company as our partner.



<b>Project:</b>	Waterproofing of splash zone areas of man-made lagoons
<b>Total area:</b>	20,000 m <sup>2</sup>
<b>Coating &amp; Applicator Company:</b>	DELTA COATINGS INTERNATIONAL LLC
<b>Coating system:</b>	DELTA Prime 2K Sf, Primer DELTA Shield, Aqualine AL

## In cooperation with:



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<sup>1</sup>Please see the "Guidance on Use of Covestro Products in a Medical Application" document.  
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