



DTA/ DOW CORNING SUCCESS IN ASIA

Changi Port in Singapore

Approximately 28,000 sq.m. (301,389 sq. ft.) of pre-cast concrete panels made in Indonesia and shipped by barge to Singapore, were treated with Dry-Treat 100N. Due to the constant surface wear of the concrete from wave action, it was vital that the treatment achieved a minimum penetration depth of 4mm (1/4 inch) into the concrete.

Tanjong Rhu Suspension Bridge, Singapore

A pedestrian bridge over a salt water estuary. Dry-Treat 100N was applied to the new pre-cast concrete components to reduce the ingress of water and salts into the concrete minimizing future maintenance costs.

PRODUCTS

Dow Corning® Z-6403 Silane, Dow Corning® 520, Dow Corning® Z-6430, Dow Corning® Z-6672

Working partnership sealed in stone

Imagine the Sydney Opera House or the sea walls of the Changi Port in Singapore deteriorating. It's not a pretty picture. Fortunately not one that lingers too long as businesses like Dry-Treat Australia (DTA) and Dow Corning work in partnership to provide quality protection and a long life to famous landmarks.

"It's the chloride ions found in salt water that really do the damage," said Stuart Anderson, director of DTA. "If they penetrate through the concrete, they will corrode the steel reinforcements causing them to rust, which in turn will cause the concrete to crack and break."

Sealing some of the world's most famous structures and landmarks from the harsh elements of the sea is all in a day's work for DTA. As an industry leader in the waterproofing business, DTA is often presented with unique and varying challenges, which it accomplishes with ease – thanks to Dow Corning penetrating water repellents.

Dow Corning provides a variety of silanes, silane emulsions, siloxanes and siliconates in various forms to water repellent formulators.

Working with a high performance alkyl silane water repellent like Dow Corning® Z-6403 Silane means DTA can successfully seal and protect concrete structures within a marine environment. The sealing expertise of the partnership ensures structures are fully protected against the harsh elements while work takes place.



Tanjong Rhu Suspension Bridge, Singapore

Changi Port in Singapore

***Sihanoukville Jetty, Cambodia
(old French built jetty)***

Cambodia's main port was treated with 14,000 litres (3698.41 gallons) of Dry-Treat 100N. 23,000 sq.m. (247,572 sq. ft.) of the concrete wharf had started to deteriorate due to the corrosion of the steel reinforcement within the concrete. The treatment was applied to reduce the rate of deterioration, stop further water and salt ingress into the concrete and perhaps provide 10-20 years more service.

Sydney Opera House, Australia

Concrete ribs of the magnificent roof shells (sails) were sealed with Dry-Treat 100N, ensuring a longer life for this famous landmark.

Power Station, Selatan, Indonesia

The concrete walls of the temporary storage tanks are sometimes used to house salt water and, therefore, needed a protective sealant.

“Since 1991, DTA has consistently grown its business by providing customers with a high level of service and market-leading, quality penetrating sealers,” said Stuart Anderson. “Having Dow Corning as a partner means Dry-Treat has access to the latest innovations in this field and a reliable supplier which plays an important role in helping achieve our goals.”

Dow Corning has made a further commitment to the waterproofing industry by developing three new products this year. The new products, *Dow Corning® 520*, *Dow Corning® Z-6430* and *Dow Corning® Z-6672*, are used as ingredients by formulators like DTA, who work with them to develop commercial and consumer products.

“Our global expansion of silane products and production capacity for water repellent ingredients over the last three years represents a major commitment to waterproofing formulators and the global waterproofing industry,” said Craig Nemeth, global market development manager for Construction Chemicals.

It seems DTA is riding the crest of a waterproof wave, and as they expand into Asia-Dow Corning will be surfing right up alongside them.

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