

North Queensland Stadium, Australia

PPG PSX® “1 + 1 = 3” coating system
increases project efficiency and extends
color- and gloss retention

Case study



Photo credit: Andrew Rankin

The Customer

Owner : Stadiums Queensland
Structural Engineer : Arup
Architects : Cox Architecture
Managing Contractor : Watpac
Fabricators : BSF, Casa, CSF and Thomas
Applicators : Waters Abrasive Blasting,
Tranzblast Coating Services

The Location

Townsville, Queensland Australia

The Challenge

To meet the project's expectation for an effective, high-performance coating system that offers extended color- and gloss retention, especially in the very harsh tropical weather of the North Queensland region

The Solution

PPG PSX® two-coat system “1 + 1 = 3”, consisting of: PPG SIGMAZINC™, patented engineered siloxane topcoat; and PPG PSX high-solids, zinc-rich epoxy primer

Year

2020



Photo credit: Andrew Rankin

The Customer

Queensland Country Bank Stadium formerly known as the North Queensland Stadium came to life as part of the Townsville City Deal – aiming to deliver a centrally located, 25,000-seat multipurpose regional stadium in time for the 2020 National Rugby League (NRL) season. The project will act as an infrastructure boost and will deliver more activation and development opportunities for the Townsville City Waterfront Priority Development Area and Townsville CBD.

The stadium is a joint project of the Queensland Government, Australian Government and Townsville City Council, supported by both the NRL and North Queensland Cowboys.



North Queensland Stadium, Australia

PPG PSX® “1 + 1 = 3” coating system increases project efficiency and extends color- and gloss retention



The Challenge

The AUD 293-million North Queensland Stadium has been designed for North Queensland's tropical weather conditions with the multipurpose sport and entertainment stadium featuring best practice structural design and sustainability features.

The customer required an effective coating system with a long track record that would offer long-term protection, enduring color- and gloss retention with a long-term life cycle that would minimize frequency of maintenance and repair for the iconic sports structure.

The Solution

The PPG PSX two-coat coating system was chosen based on its long successful track record and long-term corrosion protection. This higher performance topcoat system will offer greater color- and gloss retention, when compared with traditional polyurethane systems.

The Benefits

The PPG PSX patented engineered polysiloxane offers unique “1 + 1 = 3” benefits. This means that the topcoat itself provides the corrosion- and chemical resistance of an epoxy, with color- and gloss retention outperforming that of a conventional urethane. When combined with an organic zinc primer, the two-coat system provides extended color and gloss retention than the best three-coat polyurethane system on the market and meet the performance required for corrosivity environments as high as C5 according to ISO 12944-2:2017.

The PPG PSX system provides outstanding adhesion (two times that of typical epoxy) and abrasion resistance (three times that of typical urethane). It also offers excellent graffiti resistance properties, which makes cleaning easy for iconic public asset.

The product's performance has been proven through 30 years of success on various projects in Australia as well as globally.



Photo credit: Andrew Rankin

The Result

The PPG PSX engineered polysiloxane topcoat offers the ideal non-isocyanate and low VOC with 90% volume solids.

The fast curing property of PPG PSX coating allows for rapid transportation of coated steel to site for erection, which greatly reduces damage to the coating, and minimizes additional on-site repairs.

The PPG PSX two-coat system saves project time by eliminating the intermediate coat of the system; while the system offers extended color- and gloss retention for 15 to 20 years. The prolonged protection reduces the frequency of future maintenance and repair works which can be simply done through “Clean-Dry-Recoat” instead of traditional blasting and repainting.

PPG PSX topcoat comes with high surface energy and will minimize dirt to help keep the North Queensland Stadium in its pristine condition for long.

Visit ppgpmc.com or contact:

Asia Pacific ☎ +86-21-6025-2688 ✉ ppgpmc.ap@ppg.com | Europe, Middle East and Africa ☎ +32-3-3606-311 ✉ customers@ppg.com

Latin America ☎ +57-1-8764242 ext. 201 ✉

| North America (US & Canada) ☎ +1-888-9PPGPMC ✉ PMCMarketing@ppg.com

ppgpmcandean-ca@ppg.com

No rights can be derived from the content of this publication. Unless otherwise agreed upon in writing, all products and technical advice are subject to our terms of sale, available on our website ppgpmc.com. All rights reserved. The PPG logo, We protect and beautify the world, and all other PPG marks are property of the PPG group of companies. All other third-party marks are property of their respective owners. Use of them herein does not imply any affiliation with or endorsement by their respective owners. PM16258 Created May 2020. © 2020 PPG Industries, all rights reserved.

