

ANZ Stadium, Sydney, Australia

The PPG PSX® 700 system offers durable protection, excellent color- and gloss performance, and reduced maintenance

Case study



Customer

ANZ Stadium Organization

Location

Sydney, Australia

Challenge

To provide resilient protection, exceptional color- and gloss performance, and an extended life cycle

Solution

The PPG PSX® 700/ PPG AMERLOCK® system

Benefits

The PPG PSX 700 two-coat system's long-lasting, proven performance delivers reduced maintenance frequency and can significantly outlast the best three-coat system on the market

Result

The durable protective coating offered easy and efficient application to preserve the stadium's impressive image, elevate its user experience, and deliver reduced maintenance costs

The Project

The ANZ Stadium was initially completed in 1999 to host the Summer Olympics in and has become the home stadium for the Canterbury Bulldogs, South Sydney Rabbitohs, West Tigers, and many others.

The east and west roofs of the stadium were erected just before the Sydney Olympics and coated with a three-coat polyurethane system. During the 2003 reconfiguration, the north and south roofs were added and coated with the two-coat epoxy polysiloxane system: PPG AMERCOAT® 307 zinc-rich primer at 75 µm and PPG PSX 700 siloxane topcoat at 125 µm.

The 2017 repaint was part of a roof refurbishment program for all structural steel exteriors, which also included the replacement of all the clear- and translucent polycarbonate roof panels. The coated areas included the top chords (all steel above the polycarbonate roof) and all perimeter steelwork.

The Challenge

The existing three-coat PU system on the ANZ stadium had not performed as well as expected. Therefore, the ANZ Stadium Organization wanted a coating system that would not only offer long-term protection but would also provide enduring color- and gloss retention for the iconic sports structure.



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The Solution

The ANZ Stadium Organization, asset owner of Stage 1 of the ANZ Stadium Roof Refurbishment project, chose the PPG PSX 700 coating system to safeguard this important asset. The decision to specify the PPG PSX 700/PPG AMERLOCK system for the refurbishment of the roof structure was based on the owners' assessment of the condition of the existing coatings in mid-2015, which showed that the three-coat PU system had not stood up to the elements as well as the two-coat PPG PSX 700 system.

The Benefits

The PPG PSX 700 patented engineered polysiloxane offers unique "1 + 1 = 3" benefits, which means that the topcoat itself provides the corrosion- and chemical resistance of an epoxy, along with color- and gloss retention comparable to a fine urethane.

When combined with an inorganic zinc primer, the two-coat system can significantly outlast the best three-coat system on the market and meet the most critical ISO 12944 C5I standard. The product's performance has been proven through 20 years of success on various projects in Australia and globally.

The PPG PSX 700 engineered siloxane offers three times the abrasion resistance of polyurethanes, two times the adhesion of epoxies, and reduced dust and mildew accumulation. Importantly, the coating's long-lasting, proven performance also delivers reduced maintenance frequency.

PPG PSX 700 – Key Features and Benefits

- Superior gloss- and color retention – reduced maintenance costs
- Excellent corrosion- and chemical resistance – lower application time and downtime
- Abrasion resistance (3 x typical urethane) – lower applied costs
- Superior adhesion (2 x typical epoxy) – life cycle cost reduction
- Limited accumulation of dirt and mildew – Isocyanate-free
- Unlimited recoat window: wash, dry, and reapply – eases future touch-up and repair tasks



- Ultra-low VOC – significant reduction in solvent emissions and hazardous waste
- Meets ISO 12944 in a two-coat system – high solids at 90% = low odor
- Graffiti resistant – unlimited color palette
- Over 20 years' proven performance – trusted track record

The Result

The owner was delighted with the project management by the builder Laing O'Rourke, the historic stadium builder in Australia with extensive experience on multiple government projects and also with Programmed Property Services (PPS), one of the largest painting contractors in Australia.

The PPG PSX 700 system's benefits make it an ideal coating for an iconic project like the ANZ Stadium to preserve its impressive image, elevate the user experience and deliver reduced maintenance costs.

Due to the limitation of site space, the surface preparation was done by light hand sanding thanks to the PPG AMERLOCK high-build, surface-tolerant epoxy primer. This primer coat needs minimal surface preparation and can be applied over intact old paint and tight rust, which makes it convenient where blast cleaning is impractical.

PPG technical sales worked closely with PPS to ensure that the application would deliver the best performance result to protect the asset for a long period of time.

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