Sporting Stadium Redevelopment

PPG PSX® 700 epoxy polysiloxane chosen to protect Simonds Stadium

Case study

Simonds Stadium – aerial view

The Project
The Simonds Stadium Stage 4 redevelopment

The Location
South Geelong, Victoria, Australia

The Challenge
To provide long-term corrosion protection with improved color and enhanced gloss retention over other systems for the stadium's USD 90 million Stage 4 upgrade

The Solution
The PPG PSX® 700 Epoxy Polysiloxane system

The Benefits
This is the only epoxy polysiloxane system with three times the abrasion resistance of polyurethanes, two times the adhesion of epoxies, plus reduced accumulation of dirt and mildew

The Result
The PPG PSX 700 coating's unique technology fulfilled the builder's and architect's requirements, and enabled the applicator to match the architect's creative concept by delivering a high-quality finish

The Customer

Simonds Stadium is a sporting and entertainment venue located within Kardinia Park, South Geelong, Victoria, Australia. The stadium, owned and operated by the Kardinia Park Stadium Trust, is the home ground of the Geelong Football Club (the Cats).

The Architect

Populous is a global architecture and design firm that designs the places where people love to be together, such as Yankee Stadium, the London Olympics, PPG Arena and venues for the Super Bowl. Over the last 30 years, the firm has designed more than 2,000 projects worth USD 40 billion across emerging and established markets.

The Builder

Following an ECI tender process, Kane Constructions was appointed as Design & Construct Head Contractor for the Simonds Stadium Stage 4 Redevelopment Main Works Project. Kane Constructions was initially engaged for the ECI stage and, following this, delivered an early works package prior to the appointment for the Main Works contract.

The Applicator

Geelong Fabrications successfully worked through the challenges of the project. In excess of 500 tonnes of structural steel including roof, entrance canopy and beams were fabricated and painted in their facility.

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The Geelong Cats' Navy Blue, Bright White and Charcoal colors were chosen for the PPG PSX 700 system applied to the steel sections.

The Challenge

The owners of the Simonds Stadium and the architects wanted a system that would protect the steel from corrosion over the long term, provide a higher gloss finish, along with greater color and gloss retention than acrylic polysiloxane and traditional polyurethane coatings.

Stage 4 redevelopment

Known as the Charles Brownlow Stand, the Simonds Stadium redevelopment replaced the demolished Brownlow and Jennings stands. Funded in November 2014, the landmark USD 90 million Stage 4 redevelopment was ready and launched in May 2017.

Architect:	Populous
Customer:	Geelong Football Club
Completion:	May 2017
Contractor/Builder:	Kane Constructions Pty Ltd
Cost:	USD 90 million
Fabricator/Applicator:	Geelong Fabrications
Coating system:	PPG PSX 700 – Navy Blue, Bright White, Charcoal

The Solution

Our PPG PSX 700 system has a track record of over 20 years on projects around Australia and the world, protecting steel in the most extreme environments. The PPG PSX 700 coating was chosen for its ability to offer outstanding corrosion resistance combined with an exceptional aesthetic finish so important for such an important venue.

The Benefits

Our proven, patented technology is the only epoxy polysiloxane system that offers three times the abrasion resistance of polyurethanes, two times the adhesion of epoxies, plus reduced accumulation of dirt and mildew. The PPG PSX 700 system provided improved productivity using the two-coat system instead of the standard three-coat system typically used by other systems for these types of projects.

Simonds Stadium Stage 4 – grandstand from inside the arena

Key Features and Benefits of PPG PSX 700

- 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 — ultra-low VOC
- Meets ISO 12944 in a two-coat system — high solids = low odor
- Graffiti resistant — unlimited color palette
- Over 20 years' proven performance

The Result

Populous Architects' amazing design and the PPG PSX 700 coating's unique technology were key factors in the system's ease of application. We are pleased to have played an integral part in linking both the builder's and the architect's exacting requirements by providing a paint system solution that allowed Geelong Fabrications to deliver the required finish, which matched the architect's creative concept.

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