



SIGMAZINC™ 68GP, SIGMAFAST™ 278 MIO, SIGMADUR™ 550

PPG delivers a full coating solution for a major sports stadium in the UK

CASE STUDY



Customer Overview

Owner: Brighton & Hove Albion Football Club is a professional football club based in Brighton and Hove, East Sussex, England. The club competes in the Premier League, the top tier of English football.

Fabricator: Austin Divall Fabrications operates from West Sussex in the UK and specializes in mild steel, stainless steel and aluminum for a wide range of engineering and construction projects.

Architect: BDP is a firm of architects and engineers employing over 900 staff in the UK and internationally. The company aims to create environments that are functional, sustainable, and that work for the people who live, work, and interact with them every day.

The Challenge

The new fan zone area in the American Express Stadium in Brighton, the United Kingdom, will feature an exposed steel structure, designed to provide a modern and durable facility for football club fans. The owner of the stadium, Brighton & Hove Albion FC, were looking for a coating that would be low maintenance, and ensure longevity of life as the facility will be used as a football club for fans. The stadium is in a coastal city with a range of climatic conditions that required a durable protective solution.

The Solution

The PPG SIGMAZINC™ 68 GP, PPG SIGMAFAST™ 278 MIO, and PPG SIGMADUR™ 550 coating system offers exceptional long-term protection, with a durability rating of over 25 years. This system has been tested to meet the ISO 12944 C5VH standards, ensuring it can withstand harsh environments classified under very high durability conditions. One of the key features of this coating system is its fast turnaround time in shop applications. The products are designed to cure quickly, allowing for efficient processing and reduced downtime. Additionally, the winter cure midcoat and topcoat options ensure that the coating system can be applied in colder temperatures without compromising performance, making it versatile for various climatic conditions.

The Benefits

Particularly important for a sports stadium in continual use, any new protective system needs to be applied quickly and efficiently. The fast turnaround for projects facilitated by this coating system enables sections to be efficiently prepared, coated, and shipped to the site. This streamlined process ensures that construction can proceed seamlessly during periods when no matches are scheduled, minimizing disruption and maximizing productivity. Moreover, the long-term performance of these rigorously tested products supports extended use, helping to reduce the operating costs of the building over time. This durability translates to fewer maintenance requirements and lower overall expenses, making it a cost-effective solution for long-term infrastructure projects.



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Key benefits: PPG SIGMAZINC 68 GP coating

- Designed as a system primer in various paint systems for aggressive environments
- Suitable for use in offshore and onshore environments with ISO 12944-2 corrosivity categories of C5 and CX (offshore)
- Meets the requirements of Norsok M-501 Rev. 6, System 1
- Quick-drying, can be overcoated after a short interval
- Complies with the compositional requirements of ISO 12944-5
- Complies with the compositional requirements of SSPC-Paint 20, Level 2
- The zinc dust used in this product complies with minimum ASTM D520 Type II

Key benefits: PPG SIGMAFAST 278 MIO coating

- Epoxy primer or buildcoat in protective coating systems
- Excellent corrosion resistance in atmospheric exposure
- Cures at temperatures down to -5°C (23°F)
- Speed curing in steel fabrication · Easy application by airless spray · Wide application range

Key benefits: PPG SIGMADUR 550 coating

- Unlimited recoatability
- Excellent resistance to atmospheric exposure conditions
- Good color and gloss retention
- Cures at temperatures down to -5°C (23°F)
- Resistant to splash of mineral and vegetable oils, paraffins, aliphatic petroleum products and mild chemicals
- Can be recoated even after long atmospheric exposure

The Results

The new football club facility features an impressive steel structure that fans will appreciate. The building's design includes an exposed steel framework, which not only adds to its visual appeal but also demonstrates the strength and durability of the construction. The customer benefited from the system's quick turnaround to facilitate their planned construction between home fixture match days over the course of a busy Premier League season. The products all deliver proven long-term performance that will reduce the building's operating costs and help ensure that the fan zone area will be a valuable asset for many years.



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