

Te Wharekura O Te Rau Aroha School Covered Outdoor Learning Area (C.O.L.A.) Shade Structure, Waikato, New Zealand

PPG PSX[®] 700 provides long-term protection and superb aesthetics in a tough environment



Customer

Te Wharekura O Te Rau Aroha

Location

Waitoa, Waikato, New Zealand

Challenge

To provide the owner with a durable and cost-effective coating system on the steel support structure for a school playground sunshade C.O.L.A.

Solution

The PPG PSX[®] 700 engineered polysiloxane topcoat applied over the PPG SIGMAZINC™ 109HS zinc-rich epoxy primer

Benefits

Our PPG PSX 700 isocyanate-free, high-gloss coating offers superior gloss- and color retention. The two-coat system saves application costs by replacing the need for a traditional three-coat system and provides high-level protection for the steel

Result

The PPG PSX 700 RAL 9005 Gloss Black coating provides a stunning contrast to the Nano coated White of the PVC shade fabric

The Customer

Te Wharekura O Te Rau Aroha is a composite (Year 1-13) school in Matamata in the Waikato region of New Zealand. Students and whānau (family) are nurtured in both Christian and Māori values and beliefs. These principles provide a strong foundation for the charter and strategic direction of the kura (school). As a result, the students are motivated participants in creating pathways to success for themselves and their whānau.

It is important that the school can provide shelter for the students from the harsh New Zealand summer sun. Therefore, SHADESYSTEMS[®] was contracted to manufacture, supply and install a custom C.O.L.A. (covered outdoor learning area) for the central courtyard area.

The Challenge

SHADESYSTEMS[®] needed to provide a structure with a coating system that would provide superior protection to the steel (some being covered and some exposed to the weather), look impressive, and stand up to the rigors of school life, while also reducing application costs and manufacturing time.



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The Solution

For this project, we offered both a conventional three-coat polyurethane system and a two-coat zinc-rich epoxy/polysiloxane system. After considering both options, SHADESYSTEMS® selected the PPG PSX 700 (125 µm) over PPG SIGMAZINC 109HS primer (75 µm) system as the most effective solution to meet the customer's and its own requirements.

The Benefits

The PPG PSX 700 system is easy to apply with excellent corrosion-, chemical- and abrasion resistance greater than that of a traditional epoxy. The high-gloss coating also has exceptional color- and gloss retention, which outperforms the best polyurethane in the market. Its low surface energy feature limits the accumulation of stains and dirt, and enhances the ability of the surface to self-clean. Moreover, its high-solids, low-VOC, and isocyanate-free composition minimizes impact to the environment, and promotes a healthier work environment for painters.

Lower maintenance costs

Ongoing maintenance costs are also reduced due to its unlimited recoat window. Requiring no sandblasting, the coating simply requires a wash, dry and recoat with another coat of the PPG PSX 700 topcoat, thereby saving future maintenance time and money for owner.

Benefits of PPG PSX 700:

- Extended color- and gloss retention
- Excellent corrosion protection
- Reduced ongoing maintenance frequency and costs
- Lead-free
- High solids (90% ± 2)
- Low VOC (84 g/L) and isocyanate-free
- Unlimited recoat window
- 20-year proven track record



The Result

The base framework of the sunshade is now protected by the PPG PSX 700 system, which ensures excellent, long-term weathering resistance along with superb aesthetics that perfectly complement the structure.

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



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