Rating 1 rating after 7 years for external steel beams

Newcastle Museum
Newcastle, NSW

Newcastle Museum, NSW

Project partners

Asset owner: Newcastle Museum
Applicator: Programmed Property Services

Challenge

Housed in the former Honeysuckle Railway Workshops, Newcastle Museum's heritage design reflects classic railway architecture. A series of steel, shade sail-clad archways offer valuable sun relief for visitors and provide an attractive promenade leading into the museum entrance.

A coatings system was needed to protect the northwest-facing archway beams from corrosion and UV damage, while also delivering a glossy finish and offering protection from graffiti.

Coatings solutions

A two-coat system delivered a durable, high gloss finish.

As the first coat, Dulux® Durebild® STE @ 125-microns (µm) is a high-performance surface tolerant maintenance coating that helps maintain asset value by offering excellent protection for steelwork.

Topcoat Dulux® Weathermax® HBR @ 100-microns (µm) is a high build recoatable polyurethane coating offering high durability, low maintenance, superior gloss and colour retention plus excellent resistance to most graffiti mediums and cleaning agents.

Coating rating after 5 years

Level 1*

Coating inspection

Results

A full visual inspection at Newcastle Museum in 2023 found the archway beams coating system to be in excellent condition, seven years after the initial application in 2016.

There was no film damage and only a slight loss of gloss on some areas in direct sunlight.

*** Coating Inspection 5-Level Rating System**

Coatings are inspected to determine the degree of deterioration. Ratings indicate the following condition status:

- No film damage other than dirt and minor staining
- Soiled, stained, ingrained dirt, chalking or loss of gloss
- Minor film damage (cracking, flaking or erosion of topcoats) in small areas
- Minor corrosion where up to 0.5% of the base metal is showing signs of rusting
- Widespread and excessive corrosion and damage