

A photograph of a metal sample, likely a steel panel, being tested in a salt spray chamber. The sample is suspended vertically and is being sprayed with a fine mist of salt solution. A bright light source is visible at the top, creating a strong glare and illuminating the spray. The background is dark and industrial.

PASSED

Neutral Salt Spray
resistance testing to
ASTM B117-19
after 1000 hours
with undercut < 2mm

Quality Coating

Temperzone Aluminium & Zinc-coated steel panels treated with Bonderite M-FE 309LT and Bonderite M-PT 23 pass the performance requirements of **AS 4506: 2005 Atmospheric Classification D High Marine / Industrial**

Henkel Laboratory Test Details



Product **Bonderite M-FE 309LT / Rinse / Bonderite M-PT 23 / Powder Top Coat**

Test **Adhesion, Neutral Salt Spray Testing to ASTM B117-19.**

Adhesion tests on panels: Samples passed Neutral Salt Spray resistance testing to **ASTM B117-19** after 1000 hours with undercut less than 2mm.

Application and Product Descriptions

Stage 1 **Fully automated application of Bonderite M-FE 309LT Iron Phosphate Cleaner/Coater.**

Bonderite M-FE 309LT is formulated for spray and immersion application to steel, aluminium, and zinc surfaces to simultaneously clean and develop a conversion coating.

The process produces a uniform non-metallic phosphate coating which inhibits corrosion and increases the adhesion and durability of paint finishes.

The substantial increases in paint life results from the fact that the coating provides:

- A clean, soil-free surface
- A corrosion-inhibiting base for paint
- A non-conducting bond between the base metal and the paint.

Stage 2 **Fully automated spray rinse with conductivity controlled town's water.**

High pressure water is sprayed on to the product to rinse of any remaining constituents of the stage one chemical.

Stage 3 **Fully automated application of Bonderite M-PT 23 Rinse Aid**

Bonderite M-PT 23 is a low foaming rinse additive for use in the final rinse stage in the pretreatment process.

Bonderite M-PT 23 decreases surface tension and promotes rapid rinsing and draining of the product. This leads to efficient drying and produces a stain free surface. The dry off oven temperature can be reduced substantially when using **Bonderite M-PT 23**.

Final Process **Dulux Duralloy Polyester Powdercoat**

Duralloy is a tough thermosetting powder coating that exhibits decorative and durable characteristics suitable for a broad range of interior and exterior product applications where excellent durability is required and with excellent colour retention.