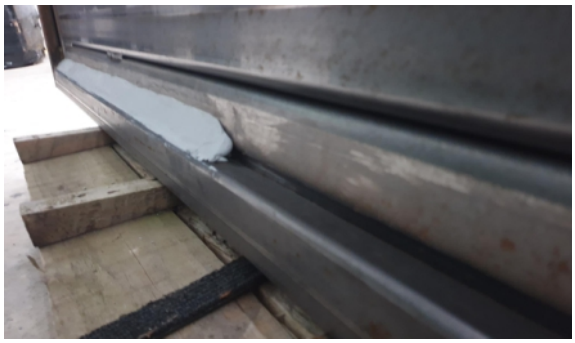
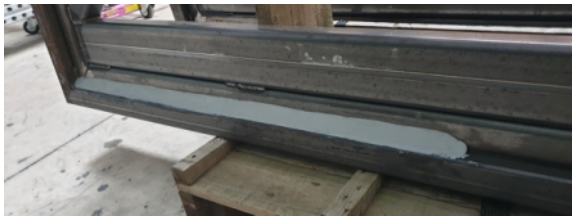
Sylmasta AB Case Study

Protection of Wooden Entrance Gates Against Rot

After Storm Arwen destroyed wooden entrance gates at an estate in Scotland, robust replacements were built with Sylmasta AB providing rot protection

The steel frame to which the slats would be fitted





Putty formed into a bevelled edge to prevent water gathering at the base of the frame

The gates were painted beige to appear uniformly made of wood and then installed at the entrance

Defect

The destruction of the previous gates led the estate to fabricate a strong steel frame capable of withstanding extreme weather for their replacements, to which wooden slats would be attached via stainless steel self-tapping screws.

At the base of the frame sat an area where rainwater could gather with no means of escape other than evaporation, potentially causing future rotting to the bottom of the slats.

Solution

To prevent water pooling, the estate came up with the ingenious idea of using epoxy putty to create a bevelled edge between the base and the frame.

This edge would divert water onto the ground, ensuring no contact with the wooden slats. The bottom of the slats were also bevelled, creating a 5mm gap through which water could pass.

Sylmasta AB Original was chosen for its waterproof qualities and two-hour work time, enabling the putty to be formed into the required edge without the threat of premature curing.

AB Original was mixed by hand and easily adhered to the steel frame. Its ultra-smooth finish created the perfect run off. The frame, slats and epoxy were coated with a beige coloured protective paint, making the structure appear to be made of wood.

Result

Since being installed, the new gates have coped with every kind of weather Scotland has thrown at them. There are no signs of rot to the slats and this fine piece of engineering will last a long time.

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