

BRIDGES CASE STUDY

OVERVIEW

By their very nature, bridges are subjected to high levels of moisture. Deterioration from corrosion due to excess moisture presents a substantial threat to the life span of a typical steel bridge structure.

To assess the integrity and safety of the structure, regular inspections and maintenance are carried out. High performance coatings are often used to protect the steel; keeping it free from corrosion.

The location of most bridges, however, often pose moisture challenges that can't easily be overcome during the preparation and coating operation.

In such circumstances, coating companies turn to strategies that help them get the job done – no matter the time of year or the weather conditions. And that's where our expertise comes to the fore.

APPLICATION

The use of temporary climate control equipment is fast being accepted as standard practice for assisting in the recoating of steel bridge structures.

If a project demands particular humidity levels or temperatures, we have the technical ability and equipment to deliver a highly effective solution.

One method of tackling these demands is to ask for solutions that combine experience, innovation and engineering expertise, plus a first-class team!

Our desiccant dehumidifiers, heaters and air con units create the optimum environment in which to sand blast and re-coat a steel bridge structure.

A contractor can complete the work on time and with minimal risk of flash rusting, material blushing or weather-related events. It ensures you can plan maintenance around production schedules too.

PROCEDURE

For us to tailor equipment to the specific needs of each bridge, we require the following information:

- Size of the bridge
- Ventilation rate required
- External weather data
- Product specifications
- Size of the temporary enclosure
- Site logistics
- Available power sources



Using high-performance dehumidifiers and experienced technicians means that Cross Hire is able to deliver the right environment for your next bridge repainting programme.

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PROCEDURE

With this information, we'll select the most suitable equipment, engineering it for specific applications and ensuring we meet the desired specifications.

All equipment, ducting and ancillary items will be serviced and checked prior to delivery. We then set up the equipment in the designated area, near a power supply and to ensure its safe operation.

Our climate control solutions deep dry ambient air, ensuring moisture level in the bridge enclosure is low enough to eliminate the risk of flash rusting.

We can also provide temporary cooling/heating to control the temperatures within the enclosure, enhancing the curing of specific coating types.

RESULTS

Our experienced and highly-skilled team are here to consult contractors on the optimal solutions for any bridge recoat project; no matter the size. Our solutions can control conditions with precision; to help you to maintain dew point and temperature throughout the entire bridge recoating process.

Our dry air system is a user-friendly, precise way to achieve and control your humidity conditions:

- Elimination of the blast and coat cycle
- Reduction in weather related work delays
- Improved production rate and work quality
- Extension of coating life by providing optimal conditions during application
- Allows a monolithic spray of each coat under proper climatic conditions
- Elimination of the traditional blast, clean and prime cycle
- Provides the ideal humidity and temperature conditions for 'holding the blast'
- Reduction in fuel costs; our highly efficient dehumidifiers require lower power costs in comparison with using only heaters

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Old paint leaves the surface free for corrosion to attack. Applying the new paint protects sensitive riveted joints for many years.