SYLMASTA

WRAS APPROVED MATERIAL

SUPERFAST

AQUA PW STICK

Case Study

Production Facility HVAC Cooling Tower Repair

After several failed repair attempts, a leaking HVAC cooling tower on the roof of a production facility in the USA is sealed within a matter of hours

The floor of the cooling tower was leaking through a crack with further damage to the concrete either side

Superfast Aqua PW was forced into the crack, easily adhering to the saturated concrete to seal the leak

Industrial Metal Rapid rebuilt the floor around the crack where the concrete had crumbled away

Defect

Temperature control at the production facility was provided by a HVAC system. Water which absorbed heat from inside the building was pumped to a cooling tower located on the roof.

This warmed water was exposed to cool air inside the tower, leading to heat rejection via evaporation. The re-cooled water was then pumped back into the building and the whole process repeated.

After water was seen leaking from the tower, it was drained and accessed. A long crack was found in the floor, with significant amounts of concrete either side having crumbled away.

Solution

The HVAC manufacturer had never seen a fault like this before. After several failed repair attempts, they contact a Sylmasta distributor for advice.

Because of its high wet surface adhesion properties, **Superfast Aqua PW Epoxy Putty** was used to seal the leak. The putty was mixed by hand and forced into the crack, curing to form a rock-hard material inside.

Industrial Metal Rapid Epoxy Paste was then applied to rebuild the areas of missing floor around the crack. It filled the damage with a smooth, metallic-like material to further enhance the seal of Aqua PW.

Result

Within three hours of the repair starting, the cooling tower was sealed and the HVAC system back operating at full efficiency again.

Impressed by the ease and speed of the repair, the manufacturer is now using Sylmasta products for a wider range of applications.

Tel: +44 (0)1444 831459 **www.sylwrap.com** **Email: sales@sylmasta.com**

Sylmasta Ltd, Halland House, Dales Yard, Lewes Road, Scaynes Hill, ENGLAND, RH17 7PG