



CASE STUDY

URESPRAY P-500

Background

Just Shellfish in Port Isaac were after a solution for their specialist seafood outlet in the heart of this historical Cornish fishing port. They needed a surface coating that was hard wearing, water resistant and easy to clean, in order to ensure that their food preparation retail environment could be kept to the highest of hygienic and visual standards. Synthesia Technologies had the perfect solution in the form of URESPRAY P-500!

Description

URESPRAY P-500 is a polyurea elastomer system formed by the reaction of two fast-drying liquid components (polyol and isocyanate) at room temperature applied by mechanical spraying.

As can be seen in the pictures, the shellfish shop was in an appreciable state of deterioration and in dire need of a revamp.

Preparation and Application

Initially, we had some preparation work to complete that included:

- Repairs of cracks and splits in the existing surface.
- Treatment of expansion joints.
- Opening of the substrate pore by polishing.
- Substrate cleaning.



(Before)

Application of URESPRAY P-500 Polyurea

The practical method of application is by means of hot spraying equipment, with the following characteristics:

- Pressure of the components: 150-200 bar.
- Preheater temperature: 70-80°C.
- Hose temperature: 70-80°C.

In cold environments it is recommended to regulate the temperature of the components and preheaters to equalise pressures and guarantee good mixture. It is also best to apply in two or three layers to reach the optimum thickness (approx. 2mm).



Properties

The excellent properties of URESPRAY P-500 Polyurea allow it to optimally rehabilitate any type of surface:

- Polyurea adheres to any surface thanks to its versatility, which makes it the ideal product for application on irregular areas.
- It also adheres to any type of material: cement, concrete, polyurethane, wood, metal, etc.
- This product is extremely hard, wear-resistant and characterised by its great durability, being inert to temperature fluctuations.
- It is a waterproofing system with a uniform finish, which makes for an easy-to-maintain surface.
- In addition, its fast reaction guarantees leak-proofing properties in less than 3 hours, with optimum conditions being reached in 24 hours.
- URESPRAY P-500 can be pigmented in different colours by adding in-situ inorganic pigments. In this case, grey pigment was applied.

(During Application)

Final Result

URESPRAY P-500 Polyurea provided Just Shellfish with an impact, abrasion and chemical-resistant uniform film to protect their seafood outlet. Providing an easy-to-clean finish and the inherent characteristic of being non-supportive to organic growth, the application has proven extremely useful in a food preparation area where hygiene is vital.

Additionally, URESPRAY P-500 naturally protects any structure it is applied within against leaks and humidity, extending its lifespan and providing peace of mind to the occupant.

The application was completed in less than 24 hours, meaning there was very little downtime for the client, who could reopen their business shortly after the work had been completed. Between this fast turnaround and the fact that URESPRAY P-500 is available in a variety of colours - from the outside you'd hardly notice work had been carried out!

Finally, every installation of URESPRAY P-500 comes with a 25-year product warranty as standard, so we will be on hand to ensure that this structure and business - as well as any others using the product - remain in the best of conditions for a while to come.



(Before)



(Finished)

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