

INDUSTRIAL CASE STUDY

CONCRETE WATERPROOFING



SITUATION

Moisture is a common problem for concrete block foundations - the moisture in the surrounding soil can cause concrete erosion and hydrostatic pressure, which can push against the foundations, causing the concrete blocks to crack.

For this application, a suitable waterproof membrane was needed to protect the concrete blocks from hydrostatic pressure, water-ingress and ground movements that deforms the structure due to temperature differences over time.



SOLUTION

LINE-X Polyureas are utilised for heavy-duty waterproofing membranes for construction projects. In this instance, XS-101 was selected because of its exceptional Water Vapour Permeability results, its elasticity and CE certified status.

Before the LINE-X application, all dust and debris were removed from the area using an industrial vacuum. All holes were filled with a fast-setting adhesive. A combination of masking tape and special wire-trim tape were used to achieve a straight edge on the finished coating. Without using the masking tape, the wire-trim would not adhere to the concrete blocks.

Once the area was masked, a LINE-X approved concrete primer was applied to the surface. Once dry, LINE-X XS-101 was applied 2-3mm thick. After the spraying was complete, a holiday detector was used to verify the membrane was free from pinholes.



RESULTS

The completed application provided a durable waterproof membrane which could resist hydrostatic pressure, water-ingress and damage caused by the ground movements. LINE-X Polyurea is being requested for construction waterproofing projects due to its quick-dry times, fast return to service and longevity of the waterproofing application.

PROJECT OVERVIEW: Concrete Waterproofing - Basement Exterior Walls

PRODUCTS USED: XS-101

CERTIFICATIONS: EN 1504-2:2004 - Waterproofing Concrete Surfaces



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