



Concrete Foundation Waterproofing

Featuring Polyshield HT™

Project:
Custom Built Mansion
Concrete Foundation
Protection and Waterproofing

Location:
Los Angeles, CA

Owner:
Private Residence

Applicator:
Poly Coatings, Inc.

System:
POLYSHIELD HT™ Polyurea
60 - 80 Mils

Total Area:
45,000 sq. ft.

Completion Date:
Summer 2008

PROBLEM:

Choosing the right materials for waterproofing concrete foundations is critical. Many residential foundations have only been damp-proofed which limits the amount of moisture vapor getting into the basement, but does not eliminate water infiltration. The home owner needed a protective coating that was water-resistant, and strong enough to support the footing drainage system that would be installed over the coating.

SOLUTION:

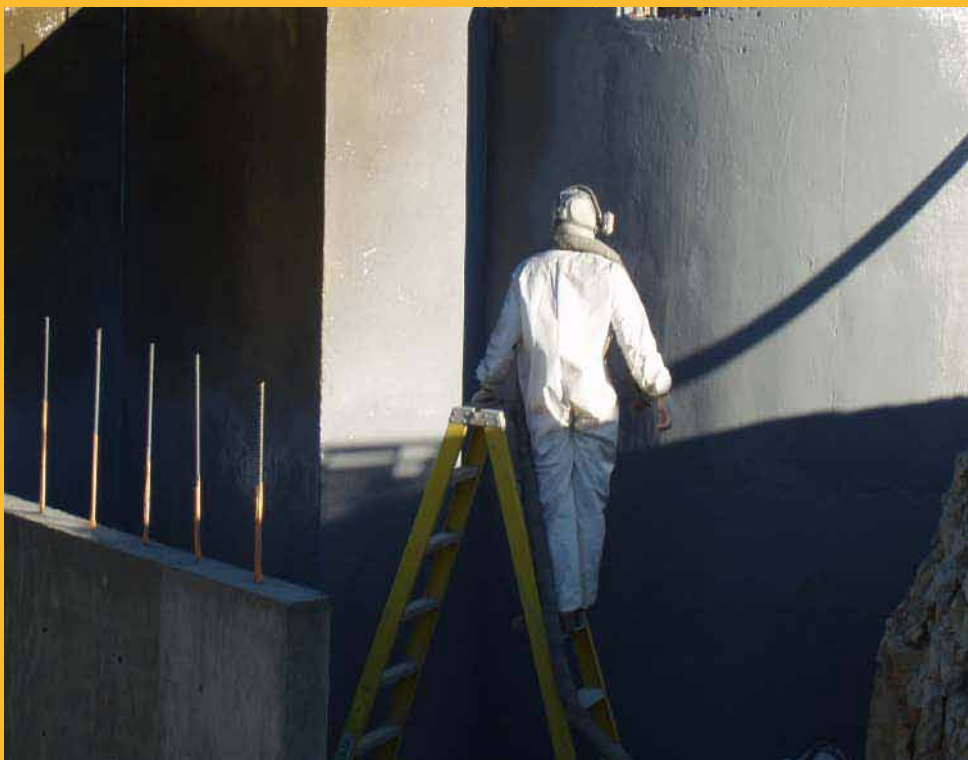
Specialty Products, Inc's (SPI) Polyshield HT™ polyurea was the coating system of choice. Poly Coatings, Inc. understood this coating would provide the seamless, durable protection needed. The moisture vapor permeation (per mil thickness) was greatly reduced and considered more effective than other options on the

market. Sheet membrane products were considered, and rejected due to potential seam problems, the inability to bond to the rough footings, or create a monolithic seal from the wall footing.

The contractor applied 60-80 mils of Polyshield HT™ polyurea over mechanically fastened geo-textile fabric. This created a seamless waterproof membrane around the entire concrete foundation perimeter.

RESULTS:

The home owner said his expectations were met and appreciates having a reliable solution in place to protect his multi-million dollar investment. In addition, the general contractor stated that he prefers SPI's coating process over any other waterproofing product.



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Concrete Protection and Waterproofing

Featuring Polyshield HT-SL™

Project:

Food Plant - Waterproof Liner

Location:

Fall River, Massachusetts

Owner:

Blount Fine Foods

Applicator:

Delphi Engineering

Coating System:

Polyshield HT-SL™ Polyurea
over woven geotextile fabric

Total Area:

1,800 square feet

Date Completed:

July 2010

PROBLEM:

A seafood processing plant was expanding its production capabilities to accommodate a new contract with a national seafood distribution chain.

The plant was adding a large water chiller, capable of cooling bags of soup as they rolled off of the production line. The construction timeline was aggressive to meet the new production opportunity. Plant engineers were looking for a secondary containment liner solution that could be installed over the new concrete foundation before the concrete reached full cure.

SOLUTION:

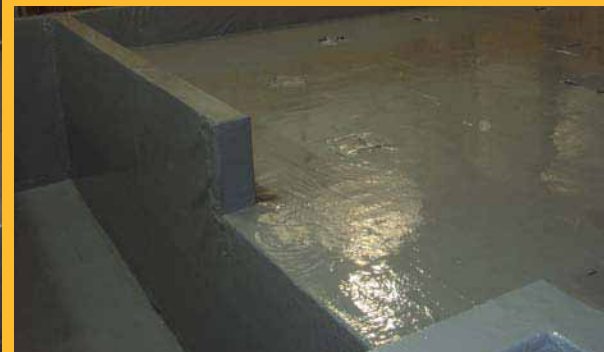
HT-SL™ polyurea is a spray-applied, thermoset, elastomer coating that offers zero VOCs, 100% solids, and has an extremely fast cure schedule. The project was specified with a geotextile fabric and HT-SL™ polyurea coating system. The installation of the waterproof liner was accelerated by mechanically fastening the geotextile fabric to the concrete, and bonding the polyurea to the geotextile.

This step combined with the coating's rapid curing property, would allow the facility to be quickly returned to service.

A concrete nail gun was used to drive the fasteners through the metal strips placed over the geotextile into the concrete. The HT-SL™ polyurea, elastomeric coating was sprayed to 100 mils thick. Slit samples were taken every 100 s.f. to verify proper mil thickness of the coating.

RESULTS:

The purpose of the lining system was to have a 100% seamless waterproof membrane; water will constantly run from the chiller to the holding area and back to the chiller. The plant engineers were grateful to have a waterproof liner solution available to meet their project timeline. The polyurea/geotextile system was the only system available that could be applied over the new concrete, meet indoor air quality requirements during application, and provide a quick cure schedule.



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