

DUAL CORE HORIZONTAL WATERPROOFING

Product Data Sheet

Deck, Balcony, Sidewalk and Plaza Horizontal Waterproofing System

PRODUCT NAME

DUAL CORE HORIZONTAL (DCH) WATERPROOFING SYSTEM

MANUFACTURER

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PRODUCT DESCRIPTION

BASIC USES

DCH is a post-applied, robust waterproofing system for new or rehabilitation waterproofing of horizontal surfaces covered by concrete, unit paving or geo-fill.

COMPOSITION & MATERIALS

DCH is a three-component waterproofing system: a base coat fluid layer of LM-85 SSL or Commercial Stretch, then a sheet layer of 650 Membrane or PRM installed over the base coat, and finally a protection and drainage and protection layer of Polyflow[®] 18 or Lowflow[™] installed over the sheet layer. Approved accessories are LM-95 Liquid Membrane (LM-95), Detail Sealant PW[™], 650 LT Liquid Adhesive, Shur-Tac Liquid Adhesive, and Quick Grip Spray Adhesive.

Information about LM-85 SSL, Commercial Stretch, 650 Membrane, PRM[™], Polyflow 18, Lowflow Protection and Drainage Mat; and related accessories, can be found under their individual data sheets on Polyguard's website.

INSTALLATION

Substrate Considerations

Slope horizontal surfaces to drain.

Cure new concrete for a minimum of fourteen (14) drying days. Cover exposed concrete in anticipation of rain, or allow additional drying time, if the concrete gets wet during the drying time. Concrete sealing and curing chemicals are not recommended. Use of sealing or curing chemicals will require compatibility testing and/ or removal of the chemical.

For remediation work, remove existing waterproofing and foreign materials from the receiving substrates to expose the original concrete surface.

Adhere the DCH system (base coat, sheet membrane, drainboard, and related accessories) to concrete/substrates that are sound, dry, clean and free of contaminants including frost.

Prepare deck-to-wall intersections with an application of LM-95, a two-part, fast-setting material; or Detail Sealant PW, a single-component, moisture-cure sealant shaped to form a minimum 3/4-inch tooled cant/fillet.

APPLICATION

If LM-85 SSL is selected for use as the base coat, mix it per the instructions located on the product container. Spread the mixed material to achieve a 60 mil continuous thickness. The set time will vary between one (1) and two (2) hours depending on ambient temperature and humidity.

If Commercial Stretch is selected for use as a base coat, mix it per the instructions located on the product container. Apply the mixed material to achieve a wet 60 mil continuous thickness. Allow a minimum of 24 hours for Commercial Stretch to cure before overlaying the sheet layer.

It is best to apply the selected base coat when the temperature and exposure to the sun are falling. If blisters form in the base coat, cut out and remove the blisters and then infill the exposed area with matching material.

Install 650 Membrane or PRM[™] onto the field and to the base perimeter of the cant/fillet.

If the selected field membrane is applied during the same day as the LM-85 SSL and the surface of the LM-85 SSL has remained dry and free of jobsite dust, then priming is not required. When an LM-85 SSL surface becomes wet or covered with jobsite dust during the application day, or if the selected membrane is applied the day after or later than the LM-85 SSL application, then apply a primer coat of 650 LT Liquid Adhesive or California Sealant to a dry LM-85 SSL surface at a rate of 300-500 SF/gallon and allow the Adhesive or Sealant to dry before covering with the 650 Membrane or PRM field membrane.

Before applying 650 Membrane or PRM onto Commercial Stretch, check for aggressive adhesion. When in doubt about adhesion, either clean the Commercial Stretch surface with a 30% solution of Isopropyl Alcohol and water and allow it to dry before covering with the selected field material; or prime the Commercial Stretch surface with 650 LT Liquid Adhesive or California Sealant applied at a rate of 300-500 SF/gallon and then allow the Adhesive or Sealant to dry before covering with 650 Membrane or PRM.

Adhere 650 Membrane or PRM[™] from a lower to higher elevation, with either (1) the top edge of the sheet vertical leg aligned 1-inch below where the top of overlaying concrete or unit paving will be, or (2) 8-inches onto the intersecting wall where geo-fill will be the covering material. Overlap side laps 2-1/2 inches and end laps 6 inches. Roll horizontally-applied sheet(s) with a 75 lb. linoleum-style roller and vertically-applied sheet(s) with a hand-held roller.

Apply Detail Tape and the selected 650 Membrane, or PRM[™], field sheet onto cured LM-85 SSL or Detail Sealant PW[™]. Apply Detail Tape to cover the cant/fillet with either, (1) the top edge located no closer than 1-inch below where the

top elevation of the concrete wear slab or pavers will be, or (2) onto a minimum of 6-inches of wall where geo-fill will be the covering material. Roll the application with a hand-held roller.

Seal end and cut edges of the field membrane and Detail Tape edges with a 3/8-inch bead of either LM-95 or Detail Sealant PW, applied along the edge and then tooled to +/- 90 mils thick. Seal side laps, including selvedge, down and outward a distance of 12-inches from the termination bar with a 3/8-inch bead of either LM-95 or Detail Sealant PW, applied along the edge and then tooled to +/- 90 mils thick.

Termination

Install a 1/8-inch by 1-inch stainless steel termination bar along the vertical terminal edge and fasten it with Tapcon or drive-pin-style anchors at maximum 8-inch spacing and to within 2-inches of each end of the bar.

Apply and tool either LM-95 or Detail Sealant PW™ along the top edge of the termination bar and over each fastener head to a minimum of 1/8-inch beyond the perimeter of each head.

Waterproofing Penetrations

Abrade and clean a minimum of 3-inches of the penetration sidewall(s) and then apply either 650 LT Liquid Adhesive or California Sealant at the rate of 250-300 ft²/gallon to the prepared area and allow it to dry before proceeding. (Primer dryness is defined as not transferring to lightly applied fingertip pressure on the primer.)

Apply LM-95 or Detail Sealant PW onto the prepared area, either before or after the base coat application, to form a minimum 3/4-inch wide cant around the base of the penetration. Provide a minimum 3-inches of coverage on the penetration sidewall(s) and a minimum 3-inches on the surrounding horizontal area surface to a minimum thickness of 90 mils.

Allow the applied LM-95 or Detail Sealant PW to cure before covering with the selected field sheet membrane. Fit and adhere the field sheet to cover onto the cant and then roll the sheet with a 75 lb. linoleum-style roller. Apply a 3/8-inch bead of either LM-95 or Detail Sealant PW along the field sheet interfacing edge on the cant. Tool the material to a thickness of 90 mils and to cover 1/2-inch to each side of the edge(s).

Repairing Damage

Remove the damaged material, and when applicable, infill the exposed area with the original base coat material. Apply 650 LT Liquid Adhesive or California Sealant to cover an area a minimum of 6" beyond the perimeter edge of the removed material in all directions. Allow the Adhesive or Sealant to dry before covering with a patch of field sheet material dimensioned to cover the applied Adhesive or Sealant. Roll the patch with a hand-held roller. Apply a 3/8-inch bead of LM-95 or Detail Sealant PW™ along perimeter edges of the patch. Tool the selected material to a minimum 90 mils thickness and to cover 1/2-inch to each side of each edge.

Protection During Construction

Protect the base coat and sheet membrane surfaces, and sealant applications, from damage until the Polyflow® 18 layer has been installed. Isolate completed work areas from construction and foot and equipment traffic. Restrict foot and equipment traffic onto completed work with temporary walkways of protection material or Polyflow 18.

Completed System

Perform related ASTM D5957, Flood Testing Horizontal Waterproofing Installations, 24 hour hose soaker testing, or Electronic Leak Detection prior to installing the permanent layer of Polyflow 18. Allow 48 hours after installation of the sheet layer and accessory sealant materials before starting one of the above-mentioned tests.

For applications involving a concrete topping slab or geo-fill, the waterproofing system is considered complete after the detailed field of waterproofing has been covered by a layer of Polyflow 18.

For applications involving unit pavers on pedestals, the system is considered complete after the detailed field of waterproofing has been covered by a layer of Lowflow™ Protection and Drainage Mat.

Expansion Joints:

Consult with Polyguard's Technical Services Department regarding expansion joint tie-in to base coat and field materials after a specific expansion joint product has been identified for use.

SAFETY

SDS documents for all Polyguard products can be obtained at our website www.polyguard.com. Call Polyguard Products, Inc. at 214.515.5000 with questions.

WARRANTY

We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results obtained from this product are beyond our control; such as weather, workmanship, equipment utilized and prior condition of the substrate. We will replace at no charge product proved to be defective within twelve (12) months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided. A five (5) year material or system warranty may be available upon request. Contact Polyguard Products, Inc. for further details.

TECHNICAL SERVICES

Technical assistance, information and Polyguard's products are available through a nationwide network of distributors and architectural representatives, or contact Polyguard Products, Inc.

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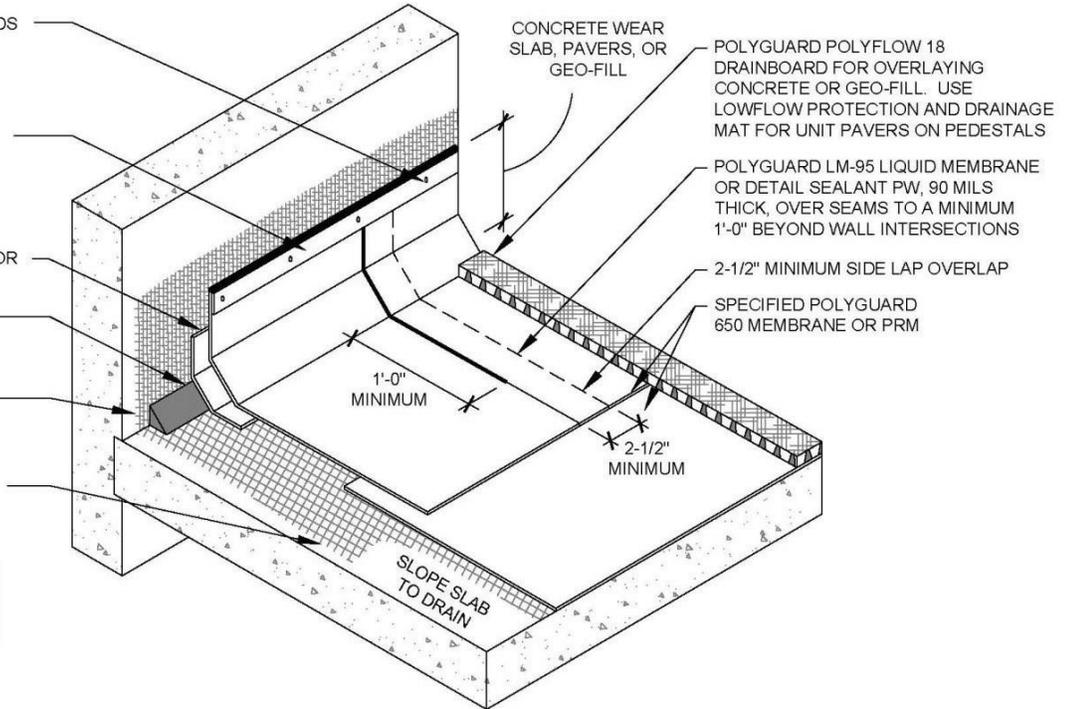
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DCH-1 Overview

- (A) SEAL TERMINATION BAR FASTENER HEADS TO 1/8" BEYOND PERIMETER AND ALONG THE TERMINATION BAR TOP EDGE WITH POLYGUARD DETAIL SEALANT PW OR LM-95 LIQUID MEMBRANE
- (B) 1"x1/8" METAL TERMINATION BAR AT THE TOP TERMINATION OF MEMBRANE. LOCATE 1" BELOW THE TOP OF FINISHED CONCRETE AND FASTEN AT 8" O.C. AND NOT CLOSER THAN 2" FROM EACH END
- 12" STRIP OF SELECTED 650 MEMBRANE OR PRM AT SLAB-TO-WALL INTERSECTIONS
- 3/4" MIN. CANT OF POLYGUARD LM-95 LIQUID MEMBRANE OR DETAIL SEALANT PW AT SLAB-TO-WALL INTERSECTIONS
- POLYGUARD 650 LT OR CALIFORNIA SEALANT APPLIED AT A RATE OF 250-300 SF / GAL ONTO WALL INTERFACES
- POLYGUARD LM-85 SSL OR COMMERCIAL STRETCH APPLIED AT 60 WET MILS

NOTE: IN LIEU OF A & B, SHINGLE 650 MEMBRANE OVER THE VERTICAL LEG OF SPECIFIED 650 MEMBRANE OR PRM



DCH-2 Dual Level Drain

