



## Installation Guideline

## Miracote MiraFlex XL - Pedestrian Waterproofing System over Concrete

Step #	Installation Step	Installation Methods	Products & Mix Ratios	Theoretical Coverage Rates
<b>Concrete Surface Preparation</b>				
1	<b>Mechanically Prepare Concrete Substrate</b>  <b>Note:</b> Minimum (CSP) concrete surface profile of CSP-3 or higher is required depending on substrate conditions, vehicular traffic exposure and protective coating requirements.	a. Shotblasting or b. Sandblasting or c. Other similar and approved mechanical methods.	<b>Miracote MiraFlex XL System</b> must be applied to a clean, sound, and mechanically prepared concrete surface in accordance with ICRI Technical Guide No.0310.2R-2013 for concrete surface preparation. Concrete substrate should be <b>(SSD) Saturated Surface Dry</b> with no standing water at the time of application.	N/A
1.1	<b>Optional - Apply MiraPrime Aqua-Blok XL. (Not mandatory, but highly recommended to mitigate potential for moisture and efflorescence migration, apply in accordance with applicable PTDS and IG's.</b>			
2	<b>Prime Metal Flashing with MiraFlex Membrane B</b>	a. Brush or b. Roll	<b>MiraFlex Membrane B</b> (Single Component)	400 Ln Ft per gallon
<b>Treatment of Cracks and Cold Joints</b>				
3a	<b>Cracks and Cold Joints - Less than 1/16"</b>  <b>Apply Detail Coat MiraFlex Membrane C Reinforced with Poly Fabric Ultra</b>  <b>Note 1:</b> Apply MiraFlex Membrane C detail coat over cracks and cold joints a minimum 3" on each side.	a. Medium Nap Roller b. Brush c. Trowel	<b>Blend:</b> MiraFlex Membrane C Liquid and MiraFlex Membrane C Powder  <b>Mix Ratio:</b> MiraFlex Membrane C Liquid - (1) 2 Gal.Pail MiraFlex Membrane C Powder - (1) 43 lb bag = 1 Unit  <u><b>MiraFlex Membrane C with Poly Fabric Ultra Reinforcement:</b></u> Apply a 30 mil by 6" wide detail coat of mixed MiraFlex Membrane C centered over unrouted cracks, and cold joints. Immediately embed Miracote Poly Fabric Ultra, and apply an additional 30 mil coat of Miracote Membrane C to encapsulate Poly Fabric Ultra. Smooth out all wrinkles and voids.	160 lineal feet per Unit
3b	<b>Cracks and Cold Joints - 1/16" and Greater</b>  <b>3b.1 - Rout &amp; Seal with Polyurethane Sealant</b> <b>3b.2 - Apply Detail Coat of MiraFlex Membrane C Reinforced with Poly Fabric Ultra</b>  <b>Note 1:</b> Rout cracks to create a 3/8" slot, and seal with polyurethane sealant, as per manufacturer recommendations. Broadcast sand into tacky sealant to refusal. <b>Note 2:</b> Apply MiraFlex Membrane C detail coat over over routed cracks a minimum 3" on either side after sealant has fully cured for a minimum 24 to 48 hrs.	a. Medium Nap Roller b. Brush c. Trowel	<b>Blend:</b> MiraFlex Membrane C Liquid and MiraFlex Membrane C Powder  <b>Mix Ratio:</b> MiraFlex Membrane C Liquid - (1) 2 Gal.Pail MiraFlex Membrane C Powder - (1) 43 lb bag = 1 Unit  <u><b>MiraFlex Membrane C with Poly Fabric Ultra Reinforcement:</b></u> Repeat as detailed above.	160 lineal feet per Unit
<b>Detail Penetrations and Transitions Including Flashing</b>				
3c	<b>Transitions, Penetrations, Changes of Plane</b>  <b>4a - Seal with Polyurethane Sealant</b> <b>4b - Apply Detail Coat of MiraFlex Membrane C Reinforced with Poly Fabric Ultra</b>  <b>Note 1:</b> Apply polyurethane sealant and MiraFlex Membrane C in a similar manner as Steps 3a, 3b.	a. Medium Nap Roller b. Brush c. Trowel	<b>Blend:</b> MiraFlex Membrane C Liquid and MiraFlex Membrane C Powder  <b>Mix Ratio:</b> MiraFlex Membrane C Liquid - (1) 2 Gal.Pail MiraFlex Membrane C Powder - (1) 43 lb bag = 1 Unit  <u><b>MiraFlex Membrane C with Poly Fabric Ultra Reinforcement:</b></u> Repeat as detailed above.  <b>Special Note:</b> Primed metal flashing must be detailed and reinforced.	160 lineal feet per Unit



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<b>Waterproofing Membrane Application</b>				
4	<b>Mix and Apply MiraFlex Membrane C Base Coat</b>  <b>Note:</b> MiraFlex Membrane C does not have a limited recoat window for the application of Miracote MPC. Proceed to Step 6 as soon as reasonable.	a. Trowel or b. Squeegee or c. Dip-N-Roll	<b>Blend:</b> MiraFlex Membrane C Liquid and MiraFlex Membrane C Powder <b>Mix Ratio:</b> MiraFlex Membrane C Liquid - (1) 2 Gal.Pail MiraFlex Membrane C Powder - (1) 43 lb bag = 1 Unit	<b>Yield:</b> 120 sq. ft/Unit <b>Application Thickness:</b> 40 mils WFT
<b>Textured Wearcourse Application</b>				
5	<b>Apply 1st Coat - Miracote MPC Regular</b>	a. Hand Trowel or b. Magic trowel or c. Squeegee	<b>Blend:</b> Miracote MPC Liquid Catalyst and MPC Powder <b>Mix Ratio:</b> 5 Gal Miracote MPC Liquid Catalyst to (2) 55# Bags <b>Note:</b> Climatic conditions that are associated with high rates of evaporation can decrease MPC working time resulting in product workability issues. Add 1 unit of Miracote Retarder to increase valuable working time when these conditions are present or anticipated.  <i>Mix Option 1 (Not Pigmented)</i> Mix Gray or White Regular MPC  <i>Mix Option 2 (Pigmented)</i> Mix Gray or White Regular MPC with (1) ColorPax-LIP Unit	500 SF/Unit 30 mils +/-
6	<b>Apply 2nd Coat - Miracote MPC Regular</b>  <b>Note:</b> Refer to the appropriate MPC Installation Guideline for the desired final finish or texture, i.e. Knockdown, Broom, Stipple, Stencil/Tape Pattern.	a. Hand Trowel or b. Magic trowel or c. Squeegee or d. Hopper Gun or e. Similar spray method (Low Pressure 8 -15 psi)	Same as above	Same as above  <b>Note:</b> MPC coverage rate can vary depending on the desired texture of finish, and the profile or condition of the existing concrete substrate.
<b>Acrylic Topcoat Application</b>				
7a	<b>Apply 2 Top Coats of MiraGard Colorbond XL (Required for Specification Compliance)</b>	a. Dip and Roll or b. Airless Spray	<b>MiraGard Colorbond XL</b> Single Component	250 - 300 SF/Gal  <b>Note:</b> MiraGard Colorbond XL coverage rate can depend on the desired texture of wearcourse.
<b>Apply Clear Sealer to Enhance Stain Resistance &amp; Cleanability (one or two coats) - Optional when MiraGard Colorbond XL is Used</b>				
7b	<b>Choose any of the Miracote sealers or topcoats for best results depending on location, service, use and exposure. Refer to the Product Technical Data Sheets and Installation Guides for one of the following MiraGard or MiraThane products:</b> <b>MiraGard HDWB, MiraGard HD 400, MiraGard HD 100 or WB, MiraThane CRU 250 and MiraThane CRU 100.</b>			<b>MiraThane</b>



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**Note:** Prior to starting the application of any Miracote Product or System be sure to refer to Installation Guide(s), Detailed Drawings, Product Data Sheets, MSDS and any other pertinent documents published by Crossfield Product Corp. for information, including but not limited to, Precautions, Limitations, Disclaimers and Warranties.

Pay special attention to substrate moisture content, physical condition of the substrate, method(s) of surface preparation, surface restoration, detailing of cracks, joints, transitions and terminations, and any applicable specifications. Review carefully for unknown site conditions or defects.

The theoretical coverage rates stated in the Installation Guides are for estimating purposes only. Factors, such as, allowance for material waste, unusual or abnormal substrate conditions and other unforeseen job site conditions that may affect actual product yields are the responsibility of the installer.