





## Installation Guideline

## Watershape/Fountain Waterproofing Installations

Step #	Installation Step	Installation Methods	Products & Mix Ratios	Theoretical Coverage Rates
<b>Concrete Surface Preparation and Primary Waterproofing</b>				
1	<p style="text-align: center;"><b>Prepare Concrete Substrate</b></p> <p><b>Note 1:</b> Typically, gunite and shotcrete watershape and fountain shells a natural rough concrete surface profile (CSP) and any further mechanical prep is not required..</p> <p><b>Note 2:</b> For all other concrete pool shells a minimum (CSP) concrete surface profile of CSP-3 or higher is required depending on existing concrete conditions.</p>	a. Pressure wash at low pressure b. Other similar and approved c. Vacuums and/or blowers	<p><b>New Concrete:</b> Upon evaporation of all bleed water and when concrete has hardened enough to walk on without damage, pressure wash concrete to remove laitance, form release agents, dust, debris and other pore blocking substances that may inhibit penetration of primary waterproofing application. For new gunite/shotcrete concrete the use of vacuums or blowers to evacuate dust and debris is an acceptable method.</p> <p><b>Pre-existing Concrete:</b> Integral waterproofing must be applied to a clean substrate with an open-pore structure. Mechanically prepare surfaces as required per ICRI Technical Guideline No. 310.2R-2013, "Selecting and Specifying Concrete Surface Preparation..."</p>	N/A
2	<p style="text-align: center;"><b>Apply MiraPrime Aqua-Blok XL Integral Waterproofing</b></p> <p><b>Note:</b> Two applications are always required and applied within 30 to 45 minutes apart followed by two mist coats of potable water applied in the same manner.</p>	a. Low pressure pump sprayer (with fan tip) b. Rollers and/or brushes (for detail work)	<p style="text-align: center;"><b>MiraPrime Aqua-Blok XL</b> Single component</p> <p><b>Note:</b> For further instructions, refer to the most current individual Product Technical Data Sheet (PTDS) and Installation Guide (IG) for MiraPrime Aqua-Blok XL.</p>	150 - 200 SF/GAL/Application  <b>Actual consumption rate is dependent on concrete water/cement ratio, surface texture and porosity.</b>  <b>Note:</b> Avoid over-application and puddling.
3	<p style="text-align: center;"><b>Apply Miracote Mortar Bed 2000</b></p> <p><b>Note 1:</b> Brown coat all concrete surfaces as required to establish a planar substrate and fill all bug holes.</p> <p><b>Note 2:</b> Sand and cement renders &amp; mortar bed mixes are acceptable with the use of Miracote Polymer Admix.</p>	a. Hand Trowel or b. Screed	<p style="text-align: center;"><b>Miracote Mortar Bed 2000</b> Mix Ratio: (1) 50 LB Bag to 3 Quarts Potable Water</p> <p><b>Note:</b> For further instructions, refer to the most current individual Product Technical Data Sheet (PTDS) and Installation Guide (IG) for Mortar Bed 2000.</p>	<b>Yield:</b> .48 CF/Unit <b>Covers:</b> 46.6 SF @ 1/8" 23.3 SF @ 1/4"
<b>Detailing of Changes-in-Plane, Penetrations, Cracks and Cold Joints</b>				
4a	<p style="text-align: center;"><b>Cracks and Cold Joints - Less than 1/16"</b></p> <p style="text-align: center;"><b>Apply Detail Coat MiraFlex Membrane C Reinforced with Poly Fabric</b></p> <hr/> <p style="text-align: center;"><b>Cracks and Cold Joints - 1/16" and Greater</b></p> <p>4a.1 - Rout &amp; Seal with CPC Hybrid Sealant            4a.2 - Apply Detail Coat of MiraFlex Membrane C Reinforced with Poly Fabric</p>	a. Medium Nap Roller b. Brush c. Trowel	<p><b>Blend:</b> MiraFlex Membrane C Liquid and MiraFlex Membrane C Powder</p> <p><b>Mix Ratio:</b> MiraFlex Membrane C Liquid - (1) 2 Gal.Pail            MiraFlex Membrane C Powder - (1) 43 lb bag            = 1 Unit</p> <p style="text-align: center;"><b>Refer to MiraFlex Membrane C Crack Treatment Detail MIR-MEMC-CT1 (4/12/20)</b></p>	140 lineal feet per Unit
4b	<p style="text-align: center;"><b>Inside and Outside Corner Changes-in-Plane and Penetrations</b></p> <p>4b.1 - Seal with CPC Hybrid Sealant            4b.2 - Apply Detail Coat of MiraFlex Membrane C Reinforced with Poly Fabric</p> <p><b>Note 1:</b> Inside corners only require sealant when cold or construction joints are present. Outside corners only require Membrane C and fabric (no sealant needed).</p>	a. Medium Nap Roller b. Brush c. Trowel	<p><b>Blend:</b> MiraFlex Membrane C Liquid and MiraFlex Membrane C Powder</p> <p><b>Mix Ratio:</b> MiraFlex Membrane C Liquid - (1) 2 Gal.Pail            MiraFlex Membrane C Powder - (1) 43 lb bag            = 1 Unit</p> <p style="text-align: center;"><b>Refer to MiraFlex Membrane C Change-in-Plane Detail MIR-MEMC-CPD1 (4/12/20)</b></p> <p style="text-align: center;"><b>Refer to MiraFlex Membrane C Pipe Penetration Detail MIR-MEMC-PD1 (4/12/20)</b></p>	140 lineal feet per Unit



## Installation Guideline

## Watershape/Fountain Waterproofing Installations

Step #	Installation Step	Installation Methods	Products & Mix Ratios	Theoretical Coverage Rates
<b>Flexible Waterproofing Membrane Application</b>				
5a	<p style="text-align: center;"><b>Apply MiraFlex Membrane C Waterproofing Membrane First Coat</b></p> <p><b>Note:</b> Continue application from interior pool wall over the top of the infinity/vanishing edge, and down into the trough and up the opposite side and top of the wall. Extending the membrane down the outer trough wall is recommended but not mandatory.</p>	a. Trowel or b. Squeegee or c. Dip-N-Roll d. Texture gun e. Air-assisted spray	<p><b>Blend:</b> MiraFlex Membrane C Liquid and MiraFlex Membrane C Powder</p> <p><b>Mix Ratio:</b> MiraFlex Membrane C Liquid - (1) 2 Gal.Pail            MiraFlex Membrane C Powder - (1) 43 lb bag            = 1 Unit</p> <p><b>Note:</b> Refer to the appropriate Installation Guide (IG) as required for raised pool shells whether specific application involves "In-Vault" or "No Vault" pool shell waterproofing.</p>	<p><b>Yield:</b> 160 sq. ft/Unit/Per Coat</p> <p><b>Application Thickness:</b> 30 mils WFT (1/32")</p>
5b	<p style="text-align: center;"><b>Apply MiraFlex Membrane C Waterproofing Membrane Second Coat</b></p> <p><b>Note:</b> Two separate coats are required. Predampen the concrete substrate prior to applying 1st coat. Apply the 2nd coat when surface appears evenly dry and requires application at right angles to the base coat.</p>	a. Trowel or b. Squeegee or c. Dip-N-Roll d. Texture gun e. Air-assisted spray	<p><b>Blend:</b> MiraFlex Membrane C Liquid and MiraFlex Membrane C Powder</p> <p><b>Mix Ratio:</b> MiraFlex Membrane C Liquid - (1) 2 Gal.Pail            MiraFlex Membrane C Powder - (1) 43 lb bag            = 1 Unit</p> <p><b>Note:</b> For further instructions, refer to the most current individual Product Technical Data Sheet (PTDS) and Installation Guide (IG) for MiraFlex Membrane C.</p>	<p><b>Yield:</b> 160 sq. ft/Unit/Per Coat</p> <p><b>Application Thickness:</b> 30 mils WFT (1/32")</p>
<b>For Application of UV Stable and Chemical Resistant Topcoat - Proceed with Topcoat Application</b>				
7	<p><b>Consult with a Miracote technical sales representative to choose appropriate topcoat for best results depending on location, service, use and exposure. Refer to the Product Technical Data Sheets and Installation Guides for Miracote MPC, MiraTop UCS or MiraThane 100 CRU.</b></p>			
<b>For Application of Tile Only - Proceed to Appropriate Tile Installation Guide</b>				

**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.