





Installation Guideline

Pool Structures Tile Line Only Installation

Step #	Installation Step	Installation Methods	Products & Mix Ratios	Theoretical Coverage Rates
Concrete Surface Preparation and Primary Waterproofing				
1	<p style="text-align: center;">Prepare Concrete Substrate</p> <p>Note 1: Typically, gunite and shotcrete pool shells have a natural rough concrete surface profile (CSP) due to these types of concrete installation methods.</p> <p>Note 2: 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 washing b. Other similar and approved c. Vacuums and/or blowers	<p>New Concrete: When concrete has sufficiently hardened enough to walk on without causing damage, pressure wash the substrate to remove laitance, dust, debris, form release agents, and any other pore blocking substances that may potentially inhibit penetration of the primary waterproofing application. On new gunite/shotcrete concrete the use of vacuums or blowers to evacuate dust and debris is an acceptable method.</p> <p>Pre-existing Concrete: Primary (integral) waterproofing must be applied to a clean and sound 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;">Apply MiraPrime Aqua-Blok XL Integral Waterproofing</p> <p>Note: 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;">MiraPrime Aqua-Blok XL Single component</p> <p>Note: 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 <i>*Actual consumption rate is dependent on concrete water/cement ratio, surface texture and porosity.</i> Note: Avoid over-application and puddling.
3	<p style="text-align: center;">Apply Miracote Mortar Bed 2000</p> <p>Note 1: Brown coat pool shell surfaces as required & to establish mortar bed for tile lines.</p> <p>Note 2: Sand and cement renders & mortar bed mixes are acceptable with the use of Miracote Polymer Admix.</p>	a. Hand Trowel or b. Screed	<p style="text-align: center;">Miracote Mortar Bed 2000 Mix Ratio: (1) 50 LB Bag to 3 Quarts Potable Water</p> <p>Note: For further instructions, refer to the most current individual Product Technical Data Sheet (PTDS) and Installation Guide (IG) for Mortar Bed 2000.</p>	Yield: .48 CF/Unit Covers: 46.6 SF @ 1/8" 23.3 SF @ 1/4"
Detailing of Changes-in-Plane, Penetrations, Cracks and Cold Joints				
3a	<p style="text-align: center;">Cracks and Cold Joints - Less than 1/16"</p> <p style="text-align: center;">Apply Detail Coat MiraFlex Membrane C Reinforced with Poly Fabric</p> <hr/> <p style="text-align: center;">Cracks and Cold Joints - 1/16" and Greater</p> <p>4a.1 - Rout & 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>Blend: MiraFlex Membrane C Liquid and MiraFlex Membrane C Powder</p> <p>Mix Ratio: MiraFlex Membrane C Liquid - (1) 2 Gal.Pail MiraFlex Membrane C Powder - (1) 43 lb bag = 1 Unit</p> <p style="text-align: center;">Refer to MiraFlex Membrane C Crack Treatment Detail MIR-MEMC-CT1 (4/12/20)</p>	140 lineal feet per Unit
3b	<p style="text-align: center;">Inside and Outside Corner Changes-in-Plane and Penetrations</p> <p>4b.1 - Seal with CPC Hybrid Sealant 4b.2 - Apply Detail Coat of MiraFlex Membrane C Reinforced with Poly Fabric</p> <p>Note 1: 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>Blend: MiraFlex Membrane C Liquid and MiraFlex Membrane C Powder</p> <p>Mix Ratio: MiraFlex Membrane C Liquid - (1) 2 Gal.Pail MiraFlex Membrane C Powder - (1) 43 lb bag = 1 Unit</p> <p style="text-align: center;">Refer to MiraFlex Membrane C Change-in-Plane Detail MIR-MEMC-CPD1 (4/12/20)</p> <p style="text-align: center;">Refer to MiraFlex Membrane C Pipe Penetration Detail MIR-MEMC-PD1 (4/12/20)</p>	100 lineal feet per Unit



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Flexible Waterproofing Membrane Application				
5a	Apply MiraFlex Membrane C Waterproofing Membrane First Coat Note: Two separate coats are always required. Predampen concrete substrate prior to applying 1st coat. Apply the 2nd coat when surface appears evenly dry.	a. Trowel or b. Squeegee or c. Dip-N-Roll d. Texture gun e. Air-assisted spray	Blend: MiraFlex Membrane C Liquid and MiraFlex Membrane C Powder Mix Ratio: MiraFlex Membrane C Liquid - (1) 2 Gal.Pail MiraFlex Membrane C Powder - (1) 43 lb bag = 1 Unit Note: For further instructions, refer to the most current individual Product Technical Data Sheet (PTDS) and Installation Guide (IG) for MiraFlex Membrane C.	Yield: 160 sq. ft/Unit/Per Coat Application Thickness: 30 mils WFT (1/32")
5b	Apply MiraFlex Membrane C Waterproofing Membrane Second Coat Note: Apply 2nd coat at right angles to the 1st coat. Finish and smooth tile line surface with a trowel.	a. Trowel or b. Squeegee or c. Dip-N-Roll d. Texture gun e. Air-assisted spray	Blend: MiraFlex Membrane C Liquid and MiraFlex Membrane C Powder Mix Ratio: MiraFlex Membrane C Liquid - (1) 2 Gal.Pail MiraFlex Membrane C Powder - (1) 43 lb bag = 1 Unit	Yield: 160 sq. ft/Unit/Per Coat Application Thickness: 30 mils WFT (1/32")
For Application of Tile Line - Proceed with Tile Installation as per Applicable TCNA Guidelines				
For Application of Plaster - Proceed with Bondcoat Application				
6a	Mix and Apply Miracote BC Pro Bond Coat for Plaster Note: Proceed with the application of Miracote BC Pro within 24 to 72 hours of the completion of the MiraFlex Membrane C application.	a. Loop Roller or b. Hopper Gun and backroll or c. 1" - 1 1/2" nap roller	Blend: Miracote BC Pro Powder and Water Mix Ratio: 5-7 Qts. Potable Water to (1) 55 LB Bag <div style="background-color: yellow; text-align: center; padding: 2px;">Mix thoroughly for approximately 3 minutes with drill & paddle and allow to dwell for 2 minutes before application.</div> Note: For further instructions, refer to the most current individual Product Technical Data Sheet (PTDS) and Installation Guide (IG) for Miracote BC Pro.	Loop Roller 120 -140 SF/Unit Hopper Gun 120 -140 SF/Unit
Proceed with Application of Plaster Finish				

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.