



## Installation Guideline

## Mortar Bed 2000 DS Concrete Substrates Only

Step #	Installation Steps	Installation Methods	Products & Mix Ratios	Theoretical Coverage Rates
1	<p style="text-align: center;"><b>Surface Preparation</b> <b>Presaturate the Concrete Substrate</b></p> <p><b>Note:</b> Minimum (CSP) concrete surface profile of CSP-3 to 5 is required depending on substrate conditions &amp; bonding requirements.</p>	a. Water-blasting or b. Shotblasting or c. Diamond grinding or d. Other similar and approved mechanical methods. e. Saturate with potable water	<p><b>Mortar Bed 2000 DS</b> must be applied to a clean, sound and properly prepared substrate, as per ICRI's Technical Guideline No.310.2R - 2013, <i>Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings and Polymer Overlays</i>. <b>Concrete should be (SSD) Saturated Surface Dry</b> with no standing water at the time of application.</p>	N/A
2	<b>Pre-saturate Concrete Substrate</b>	a. Hose and potable water b. Hudson type sprayer c. Powerwasher (low psi)	<b>Potable Water Only</b>	As required for saturation
3	<p style="text-align: center;"><b>Trowel Apply and Finish Mortar Bed 2000 DS</b> <b>1/8" to 1"</b></p> <p><b>Note:</b> To ensure 100% intimate contact and maximum adhesion, scrub coat Mortar Bed 2000 DS into the substrate to fill all pores and voids. Then immediately trowel and compact Mortar Bed 2000 DS.</p>	a. Hand Trowel or b. Screed	<p><b>Blend:</b> Mortar Bed 2000 DS with Potable Water  <b>Mix Ratio:</b> (1) 50 LB Bag to 3.0 - 3.5 Quarts</p> <p>Pour 3.0 quarts of water into mixing vessel. Add powder gradually and mix continuously with a low speed drill (400-600 rpm) and paddle to a uniform consistency for maximum 3 minutes. If desired, add up to one more quart of water as needed to achieve desired consistency.</p>	<p><b>Yield:</b> .48 CF/Unit  <b>Covers:</b> 46.6 SF @ 1/8"            23.3 SF @ 1/4"            11.6 SF @ 1/2"            4.8 SF @ 1"</p>
4	<p style="text-align: center;"><b>Depths 1" and Greater</b> <b>Trowel Apply and Finish Mortar Bed 2000</b> <b>Extended with Aggregate</b></p> <p><b>Note:</b> Aggregates must be uniform in size, washed, clean, and can be in bags or bulk. As per ACI Guidelines, aggregate size should not be greater than 1/3 of placement depth.</p>	a. Hand Trowel or b. Screed	<p><b>Blend:</b> Mortar Bed 2000 DS with Potable Water  <b>Mix Ratio:</b> (1) 50 LB Bag to 3 Quarts</p> <p><b>Extend:</b> With 20 LBS of 3/8" Pea Gravel SSD (&gt; 1" depth)</p> <p><b>Note:</b> Always pre-saturate aggregate prior to mixing into Mortar Bed 2000 DS. Add aggregate within the last minute of mixing.</p>	<p><b>Yield:</b> .58 CF/Unit  <b>Covers:</b> 6.0 SF @ 1"            5.25 SF @ 1.25"            4.5 SF @ 1.5"            3.0 SF @ 2"</p>
<b>Special Note</b>	<p><b>Mortar Bed 2000 ES may also be used as an excellent concrete repair mortar for spalled or otherwise damaged concrete surfaces. When using Mortar Bed 2000 ES for this purpose, sawcut concrete repair area perimeters in accordance with depth and geometric details provided in ICRI Technical Guideline No. 310.1R-2008 - Surface Preparation for Repair of Concrete.</b></p>			

**Note:** Prior to starting the application of any Miracote Product or System be sure to read the Installation Guide(s), Product Technical Data Sheets, MSDS and 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.

