

# QC Concrete Topping Checklist

## Section 03.53.00

<p>Substrate surface is clean, sound, and free of laitance, curing compounds, oil, or debris immediately prior to bonding application.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="background-color: #28a745; color: white; padding: 2px 5px; border-radius: 3px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> </div>
<p>Substrate is mechanically roughened to Concrete Surface Profile (CSP) 4–6, verified with comparator plate readings at random locations.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">FTQ</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">QC</span> <span style="background-color: #dc3545; color: white; padding: 2px 5px; border-radius: 3px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> </div>
<p>Specified bonding slurry or epoxy bonding agent is applied at the approved coverage rate and remains tacky when topping placement begins.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">FTQ</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">QC</span> <span style="background-color: #dc3545; color: white; padding: 2px 5px; border-radius: 3px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> </div>
<p>Concrete topping thickness measured with probe or pin gauges is not less than the specified minimum and does not exceed +6 mm (+1/4 in.) tolerance.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="background-color: #28a745; color: white; padding: 2px 5px; border-radius: 3px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> </div>
<p>Embedded items such as floor drains, anchors, and conduit tops are fixed to maintain required clear cover and final elevation relative to finished topping surface.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="background-color: #28a745; color: white; padding: 2px 5px; border-radius: 3px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> </div>
<p>Reinforcement (welded wire fabric, bars, or fibers) conforms to approved schedule with laps, spacing, and supports providing minimum 20 mm (3/4 in.) cover below finished surface.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">FTQ</span> <span style="background-color: #6c757d; color: white; padding: 2px 5px; border-radius: 3px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> </div>
<p>Control and construction joints are located, formed, or saw-cut to the specified pattern, depth (1/4 slab thickness), and executed within the prescribed time window.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">FTQ</span> <span style="background-color: #6c757d; color: white; padding: 2px 5px; border-radius: 3px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> </div>
<p>Delivered concrete topping mix matches approved mix design (compressive strength, aggregate size, admixture type/dosage) as confirmed by batch tickets on site.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="background-color: #28a745; color: white; padding: 2px 5px; border-radius: 3px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> </div>
<p>Slump or spread and water-cement ratio of topping mix are within specified limits at point of placement, verified by field tests and ticket review.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="background-color: #28a745; color: white; padding: 2px 5px; border-radius: 3px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> </div>
<p>Placement proceeds in continuous strips to planned termination points, with any unavoidable cold joints treated with fresh bonding slurry and keyed as specified.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="background-color: #28a745; color: white; padding: 2px 5px; border-radius: 3px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> </div>
<p>Finished topping surface achieves required flatness/levelness (e.g., FF 35/FL 25 or 3 mm in 3 m) and specified surface texture suitable for subsequent flooring.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="background-color: #28a745; color: white; padding: 2px 5px; border-radius: 3px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> </div>
<p>Curing begins within 30 minutes of finishing and is maintained for the full specified duration using approved moist cure or curing compound method.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="background-color: #28a745; color: white; padding: 2px 5px; border-radius: 3px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> </div>
<p>Ambient and substrate temperatures remain within allowable range during placement and curing, with protection measures (blankets, enclosures, cooling) deployed when required.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">FTQ</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">QC</span> <span style="background-color: #dc3545; color: white; padding: 2px 5px; border-radius: 3px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> </div>
<p>Moisture vapor emission rate (MVER) or relative humidity (RH) of cured topping is tested and documented to meet floor covering manufacturer limits before hand-over.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="background-color: #28a745; color: white; padding: 2px 5px; border-radius: 3px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin: 0 5px;"></span> </div>