

# QC Gypsum Cement Underlayment Checklist

## Section 03.54.13

<p>Subfloor substrate is clean, sound, and free of oil, dust, adhesives, or curing compounds prior to primer application.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="background-color: green; color: white; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> </div>
<p>Substrate moisture content or MVER is measured and recorded below manufacturer's maximum (<math>\leq 5</math> lb/1,000 sf/24 h or RH <math>\leq 75</math> %) before 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;">FTQ</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="background-color: red; color: white; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> </div>
<p>Approved primer is applied at specified coverage rate and allowed to dry tack-free before underlayment pour starts.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="background-color: green; color: white; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> </div>
<p>Compression perimeter isolation strip (minimum 1/4 in thick) is installed at walls, columns, and penetrations to prevent restraint and cracking.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="background-color: green; color: white; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> </div>
<p>Metal lath or reinforcing mesh is securely fastened over wood substrates with 1 in overlap and fastener spacing <math>\leq 6</math> in o.c. each way.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="background-color: green; color: white; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> </div>
<p>Batch water volume and mixing time produce flow spread within manufacturer's specified range (e.g., 120–140 mm); results are documented each batch.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="border: 1px solid #ccc; padding: 2px 5px;">FTQ</span> <span style="background-color: #90EE90; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> </div>
<p>Underlayment is placed to the required minimum thickness (not less than 3/4 in or manufacturer's minimum) across high points of substrate; random depth checks recorded.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="background-color: green; color: white; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> </div>
<p>Finished surface achieves specified flatness/levelness (<math>\leq 1/8</math> in in 10 ft or FF/FL values) verified with straightedge or digital profilometer.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="border: 1px solid #ccc; padding: 2px 5px;">FTQ</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="background-color: red; color: white; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> </div>
<p>Ambient and substrate temperatures are maintained between 50 °F and 90 °F during placement and first 24 h curing period.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="border: 1px solid #ccc; padding: 2px 5px;">FTQ</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="background-color: red; color: white; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> </div>
<p>Foot traffic, wheeled loads, and finish flooring installation are prohibited until underlayment reaches manufacturer's specified minimum compressive strength or cure time; signage posted.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="background-color: green; color: white; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> </div>
<p>Control and construction joints are mirrored through underlayment within 1/4 in of underlying joint location and cut while material is workable or per manufacturer instructions.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="background-color: green; color: white; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> </div>
<p>Hardened underlayment surface is free of ridges, cracks, hollow areas, or debonding when tapped; any defective zones are delineated for repair.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="border: 1px solid #ccc; padding: 2px 5px;">FTQ</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="background-color: red; color: white; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> </div>
<p>Field-cast compressive-strength specimens achieve minimum specified strength (e.g., <math>\geq 3,000</math> psi at 28 days); test results documented before accepting work.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="background-color: green; color: white; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> </div>
<p>Moisture levels of cured underlayment are tested (RH <math>\leq 75</math> % or MVER <math>\leq 3</math> lb/1,000 sf/24 h) and recorded prior to application of resilient floor finishes.</p> <p>Observations</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="background-color: green; color: white; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> <span style="border: 1px solid #ccc; padding: 2px 5px;"></span> </div>