

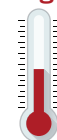











# Chemical Methods vs. Geogrid for Stabilization

This chart gives a convenient side-by-side comparison of the pros and cons associated with chemical methods (e.g., cement, lime, fly ash) and geogrid stabilization during different phases of construction.

BEFORE CONSTRUCTION		DURING CONSTRUCTION		POST CONSTRUCTION			
<h3>Soil Types</h3> <div><div>Chemical</div><div>Geogrid</div></div> <div><div></div><div></div></div> <div><div>Most Types</div><div>All Types</div></div>		<h3>Weather for Installation</h3> <div><div>Chemical</div><div>Geogrid</div></div> <div><div></div><div></div></div> <div><div>Above 40°F to 50°F and No Rain</div><div>All Weather</div></div>		<h3>Traffic and Site Access</h3> <div><div>Chemical</div><div>Geogrid</div></div> <div><div></div><div></div></div> <div><div>3 to 7 days Curing Time</div><div>Immediate after Placement</div></div>		<h3>Withstands Differential Movement</h3> <div><div>Chemical</div><div>Geogrid</div></div> <div><div></div><div></div></div> <div><div>No</div><div>Yes</div></div>	
<h3>Durability Considerations</h3> <div><div>Chemical</div><div>Geogrid</div></div> <div><div></div><div></div></div> <div><div><ul style="list-style-type: none"><li>• Freeze Thaw</li><li>• Wet-Dry Cycle</li><li>• Shrinkage Cracking</li></ul></div><div><ul style="list-style-type: none"><li>• Filtration Check</li></ul></div></div>		<h3>Speed of Installation</h3> <div><div>Chemical</div><div>Geogrid</div></div> <div><div></div><div></div></div> <div><div><ul style="list-style-type: none"><li>• Test Mix</li><li>• Blend Chemicals</li><li>• Grade</li><li>• Compact</li><li>• Mellow</li></ul></div><div><ul style="list-style-type: none"><li>• Unroll Geogrid</li><li>• Place Fill</li><li>• Compact</li></ul></div></div>		<h3>Required Equipment</h3> <div><div>Chemical</div><div>Geogrid</div></div> <div><div></div><div></div></div> <div><div>Specialized</div><div>No Special Equipment Required</div></div>		<h3>Recycling</h3> <div><div>Chemical</div><div>Geogrid</div></div> <div><div></div><div></div></div> <div><div>Difficult to Recycle</div><div>No Issues</div></div>	
<div><h1>Tensar®</h1><p>Call 800-TENSAR-1</p><p>Visit <a href="https://www.tensarcorp.com">TensarCorp.com</a></p><p><small>Source: Han, Jie, Ph.D., P.E., F .ASCE "Chemical and Geosynthetic Methods for Roadway Stabilization," April/May 2022 Geostrata Magazine.</small></p></div>		<div><h2>Avoid unnecessary expense, construction downtime and uncertain design life with Tensar geogrid.</h2><p>When all relevant factors are considered, geogrid is often the best option for addressing poor soils. Contact us the next time you run into bad soils and we can help you save time and money on your site.</p></div>				<h3>Environmental Issues</h3> <div><div>Chemical</div><div>Geogrid</div></div> <div><div></div><div></div></div> <div><div>Leaching and Runoff Concerns</div><div>No Concerns</div></div>	