

Technical Data



A Martin Marietta Product

Cem-Lime™ is a cement-based slurry engineered for soil stabilization, increasing pH, decreasing soil plasticity and dramatically increasing the load capacity and strength of pavement.

Laboratory testing and paving project results repeatedly show **Cem-Lime™** to be the reliable and cost-effective choice for clay soils with high Plasticity Index (PI).

PLASTICITY INDEX (PI) – ASTM D-4318				
LOW PI SOIL RESULTS (CLAYEY SAND)				
	Terracon Results		Rone Results	
% Cem-Lime	1-Hour	2-Hour	1-Hour	2-Hour
0	6	6	5	5
4	0	1	3	1
6	0	0	0	0
HIGH PI SOIL RESULTS (CLAY)				
	Terracon Results		Rone Results	
% Cem-Lime	1-Hour	2-Hour	1-Hour	2-Hour
0	43	43	41	41
8	12	11	14	15
10	9	13	11	8

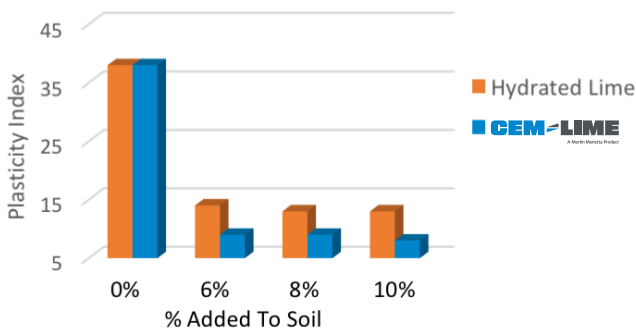
COMPRESSIVE STRENGTH – ASTM D-1633						
LOW PI SOIL RESULTS (CLAYEY SAND)						
	Terracon Results			Rone Results		
% Cem-Lime	1-Day	3-Day	7-Day	1-Day	3-Day	7-Day
0	–	–	–	–	–	–
4	111	164	232	150	225	240
6	139	237	309	180	245	280
HIGH PI SOIL RESULTS (CLAY)						
	Terracon Results			Rone Results		
% Cem-Lime	1-Day	3-Day	7-Day	1-Day	3-Day	7-Day
0	–	–	–	–	–	–
8	175	229	271	155	185	250
10	186	261	254	180	235	295

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pH TEST – ASTM D-6276	
LOW PI SOIL RESULTS (CLAYEY SAND)	
% Cem-Lime	pH
0	7.55
4	12.4
6	12.42
HIGH PI SOIL RESULTS (CLAY)	
% Cem-Lime	pH
0	7.59
8	11.86
10	11.93

All tests were conducted by **Terracon** and **Rone Engineering**, leading geotechnical engineering and laboratory testing firms.

Cem-Lime™ Improves Construction Conditions!
Plasticity Index in Soil



PROCTOR RESULTS (1 HOUR PREPARATION) – ASTM D-558		
LOW PI SOIL RESULTS (CLAYEY SAND)		
% Cem-Lime	Weight	Moisture
0	116	12.5
4	116	13
6	116.4	13.5
HIGH PI SOIL RESULTS (CLAY)		
% Cem-Lime	Weight	Moisture
0	90.7	27.3
8	91.2	27.8
10	91.8	26.6

Contact our sales team and learn more about how Cem-Lime™ can provide the superior solution for your next project.

CEM-LIME

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