

Mahaska county road G71 soil stabilization test results using PozzoStone 2" minus material. Results demonstrate a significant improvement to virgin sub-grade properties using PozzoStone at 10%, 15% and 20% dosage rates. Each mixture tested in accordance to ASTM D-698 (Standard Proctor), ASTM D-1833 (California Bearing Ratio) and ASTM D-2166 (Unconfined Compressive Strength) and select samples tested for permeability according to ASTM-D2434.

Sample	Dry Density, pcf	Optimum Moisture, %	CBR Value	Unconfined Compressive Strength, psi	Permeability, cm/sec	Sample Description
1	112.0	15.6	3	21	0.08×10^{-4}	Baseline (soil only)
2	114.4	14.9	4	25	---	Soil + RCP
3	108.3	16.2	5	32	0.05×10^{-6}	Soil + 10% Pozzo
4	107.2	16.5	7	36	---	Soil + 15% Pozzo
5	106.2	16.3	8	39	---	Soil + 20% Pozzo
6	115.1	15.8	6	28	0.9×10^{-3}	Soil + RCP + 10% Pozzo
7	112.3	17.1	9	35	---	Soil + RCP + 15% Pozzo
8	107.2	18.3	10	42	---	Soil + RCP + 20% Pozzo

The baseline mix provided a CBR value of 3 and an unconfined compressive strength of 21 psi (at 5 days). By adding 10% Pozzo Stone we increased the CBR value by 40% and the unconfined strength by 34%. By adding 15% Pozzo Stone the CBR value increased by 133% and subsequently, adding 20% Pozzo Stone the CBR value increased 167%.

Applications

- **Soil Stabilizing Agent** under asphaltic or concrete pavements and driveways to improve soil properties.
- **Soil Drying Agent** for various soil types in residential and commercial paving projects allowing used to accelerate construction cycles.
- **Economic Alternative to Crushed Limestone** as a base material for use in a variety of paving applications including parking lots, drilling pads, feed lots, and others.

Benefits

- **Conserves virgin materials** such as soil, crushed limestone etc...
- **Dustless** compared to other stabilizers such as bulk fly ash or cement
- **Self-Hydrating** that continues to gain strength over time and resistant to further exposure to moisture

BASED IN HASTINGS, MINNESOTA, NMC IS A DIVERSE ORGANIZATION PROVIDING PRODUCTS AND SERVICES TO THE ELECTRIC UTILITY AND CONSTRUCTION MATERIALS SECTOR. WITH MULTIPLE FLY ASH SOURCES, TERMINALS AND OTHER OPERATING LOCATIONS THROUGHOUT THE MIDWEST, NMC DELIVERS COST EFFECTIVE RECYCLING SOLUTIONS THAT INCREASE THE USE OF COAL COMBUSTION RESIDUALS IN A SUSTAINABLE MANNER PROVIDING A VALUE-ADDED

POZZOSTONE

PozzoStone is a high-quality manufactured aggregate produced from recycled Class C Fly Ash.

PozzoStone is cementitious and hence reacts when exposed to moisture to generate strong bonds that continue to gain strength over time.

Because PozzoStone is semi-hydrated, it can be applied in a dustless manner appropriate for both commercial & residential applications.

Applied using conventional equipment spread to desired depth in lifts, hydrated and compacted to optimum moisture and density.

Available in two gradations: PozzoStone - 2" minus; PozzoStone Plus - 3/8" minus

