



**CYPHER
ENVIRONMENTAL**

“Always do what's right.”

UNSTABLE ROADS?



ROAD//STABILIZR[®]

Superior Soil Stabilization

Significantly reduce operational costs through better haul road management.

ROAD//STABILIZR[®] is a highly concentrated, environmentally friendly, liquid, organic catalyst-based soil stabilizer specifically engineered for high clay content materials. The solution saves costs through the allowance of the use of clay-based materials, which are typically marginal in terms of their engineering properties, and turns them into a high performance engineering input.

ROAD//STABILIZR[®] treated materials exhibit reduced long-term maintenance requirements and produce tangible reductions in rolling resistance, which reduces fuel consumption and improves productivity of your haul fleet. Once applied, **ROAD//STABILIZR[®]** will dramatically reduce OPEX!



SIGNIFICANTLY REDUCE LONG TERM MAINTENANCE COSTS

- Reduces dust - saves water
- Required grading frequency reduced dramatically



REDUCTION IN MATERIAL COSTS TO BUILD ROAD

- Allows for the use of inexpensive, in-situ, high clay content materials
- Saving on use of expensive aggregates



INCREASED CBR (CALIFORNIA BEARING RATIO) VALUE RESULTING IN REDUCED ROLLING RESISTANCE

- Better fuel economy
- Improved productivity



REDUCED SWELL ALLOWING FOR MORE DURABLE ROADS IN WET WEATHER



NON-CORROSIVE & ENVIRONMENTALLY FRIENDLY

BETTER ROADS. BETTER BOTTOM LINE. BETTER PLANET.

CLIENT RESULTS

"Heavy hauler operators in the North mine say that it (ROAD//STABILIZR®) performs better and is harder than conventional roads. It's a lot smoother and easier to travel on - similar to driving on pavement."

Angus Munro, Operations Support, Syncrude Canada

"Shengli open-pit coal mine built 19.8 km of ROAD//STABILIZR® treated haul road in 2014. So far, the road has been subjected to heavy traffic including Komatsu 830E which averages 320 TON in weight. It has been observed that the road performs well in flatness, strength and other performance indexes. It has provided benefits for the recovery of production after the rain and the reduction of cost, and it has great significance in cost control, energy conservation and environmental protection".

(Translated from Mandarin)

Huang Yuejun, Engineering Supervisor,
Shenhua Beidan Shengli Energy Co., Ltd.

APPLICATIONS

- HAUL ROADS
- ACCESS ROADS
- RUNWAYS & TARMACS
- BASE, SUB-BASE OR SUB-GRADE BELOW ANY PAVED SURFACES
- STABILIZATION OF ANY HIGH-CLAY CONTENT MATERIALS



17.4% 

**REDUCTION IN HAUL TRUCK FUEL BURN
RESULTING IN MILLIONS OF \$ SAVED**

As reported by: Shenhua Beidian Shengli Energy Co. Ltd.

61% 

REDUCTION IN ROLLING RESISTANCE

As reported by: Syncrude Canada

63% 

REDUCTION IN SWELL POTENTIAL

As reported by: EPMOP - Quito, Ecuador

300%+ 

CALIFORNIA BEARING RATIO (CBR)

MEASURE OF ROAD MATERIAL STRENGTH

As reported by: Geoconsult, S.A.

CO2 EMISSIONS REDUCED BY OVER

10,000 TONS PER YEAR 

As calculated: Based on the Shenhua fuel savings case study

Long Term

Stronger

Safer

Low Cost



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**SUPERIOR DUST CONTROL
AND SOIL STABILIZATION**