



Maintenance Research Bulletin: October 2014

**NTREC New Technology Research Equipment Committee
MOR Maintenance Operations Research**



Posi Shell®

Similar to stucco, Posi-Shell is a spray-applied, mineral mortar coating that is ideal for erosion control. This product effectively stabilizes highway slopes, controls dust and can be used to stabilize stock piles. Simple to mix and easy to use, it consists of water, fibers and a mineral setting agent. Portland cement can be added in varying quantities depending on desired durability. While tarping salt and sand piles helps to reduce the leaching of chlorides, it has proven very difficult to install and maintain due to their large size. With MNDOT continuing to put heavy emphasis on environmental stewardship, District 1 will evaluate the effectiveness of this product as an alternative. The spray on coating will be applied during the summer months to seal up the pile from rain to help slow chloride runoff. Once the stockpile is needed, a front end loader can easily break through the shell. The left over Posi-Shell material will mix into the stockpile leaving no ill effects.

**For more information contact:
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Upcoming Events

**Towards Zero Deaths
Annual Conference
Duluth
November 13-14, 2014**

**MAAPT
61st Annual
Asphalt Conference
St. Louis Park
December 10, 2014**

**Road Salt Symposium
Chaska
February 5, 2015**

**TERRA
Pavement Conference
St. Paul
February 12, 2015**

**Minnesota Transportation
Conference
Bloomington
March 3-5, 2015**

**Maintenance Operations
Research website,
<http://www.dot.state.mn.us/maintenance/research.html>**

**Comments? Questions?
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We all have a stake in

