

WELCOME TO THE

2003 PURDUE ROAD SCHOOL & 2003 STREET COMMISSIONERS SPRING MEETING

UPCOMING EVENTS

Selection of Consultants
Click, Listen & Learn - LTAP Conference Room
April 9, 2003

Vegetation Management
April 16 & 17 - LTAP Conference Room

Annual Street Commissioners Conference
August 26-28, 2003
Indianapolis, Indiana

2003 Purdue Road School PMU East Faculty Lounge March 26, 2003

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Thoughts to Ponder Before Purchasing/Using Anti-icing & De-icing Materials

Starting Points

Not here to tell you how to do your job

Experience will always be our best teacher

Definitions

- Anti-icing – treatment applied before a storm event occurs (bottom – up)
- De-icing – treatment applied during/after a storm event (top – down)
- Air Temperature – the temperature of the air
- Ground Temperature – the temperature of the ground

VIDEO



Thoughts on Chemicals

- Chemicals do not have personalities
- Chemicals do not “perform”
- Chemicals are applied (either correctly or incorrectly)
- Chemicals are just a tool (all tools have limitations)

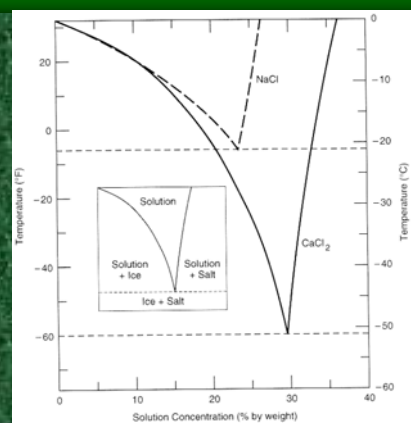
Thoughts on Temperature

- Ground Temperature and Air Temperature are two different things
- When cooling Air Temperature leads Ground Temperature
- When warming Ground Temperature lags Air Temperature

More thoughts

- Solids do not melt snow and ice
- Sand is for traction NOT melting
- Liquids melt snow and ice
- As snow and ice melts, your snow melting agent becomes more diluted
- Misuse causes frustration
- Educational opportunities will arise

VIDEO



Thoughts on Dilution

- As dilution increases the concentration decreases
- As the concentration changes so does the melting temperature
- Residual could be left on the road

Thoughts on Quality Control



Thoughts on Quality Control

- Simple specific gravity tests can be run to ensure quality of delivered product
- DO NOT accept delivery unless the product has been tested
- Learn how to evaluate different concentrations
- Know what concentration you want to start with

Final Thoughts

- Chemicals are a TOOL (You have other tools too!)
- NO product is a panacea (cure all)
- Anti-icing is the first step in a series snow & ice control strategies
- Train staff in usage

Thoughts on Success

- Accurate Weather Information
- Proper Strategies
- Educated Product Selection
- Information-Based Application Methods

Questions?

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