

Product Evaluation

RE: Review of Ice Ban M50, 200M and 300M Anti-Icing Liquid

PRODUCT

Ice Ban is a natural liquid concentrate residue from the wet milling of corn and the production of alcohol. The Ice Ban products are manufactured by Powder Emulsions located in Saskatoon, Saskatchewan.

VENDOR CLAIMS AND INFORMATION

CLAIMS

Ice Ban is a unique, patented anti-icing/deicing product made from the concentrated liquid residue of the processing of grains and agricultural products. Ice Ban is an effective corrosion inhibitor whether mixed with chloride brines or used to coat stockpiles. Product web link:

<http://www.huskyenergy.com/operations/downstream/facilities/asphaltrefinery.asp>

DESCRIPTION

Ice Ban M50 – is a magnesium chloride based product combined with a patented Ice Ban organic inhibitor.

Ice Ban 200M – combined with a magnesium chloride base, Ice Ban 200M inhibitor results in a gold-colored liquid with a eutectic point of -61°C .

Ice Ban 300M – is an organically based corrosion inhibitor with an undetected biological oxygen demand value helping to significantly reduce eutrophication and algae blooms in sensitive environmental areas.

POTENTIAL USAGE

Ice Ban M50 – delivers superior performance as a stockpile treatment, liquid pre-wet or direct spray liquid with a corrosive value less than that of distilled water.

Ice Ban 200M – is designed to adapt to all snow fighting systematic approaches, pre-wet liquid or direct spray liquid in a formula 91% less corrosive than sodium chloride.

Ice Ban 300M – is ideal for bridge decks and stays liquid to -55°C with no appreciable effect on the environment. As an anti-icer and deicer, Ice Ban 300M provides a clear, non-staining, non-tracking formula with a very mild odor.

STANDARDS

Pacific Northwest Snowfighters (PHS) Association

ALBERTA TRANSPORTATION COMMENTS

EXPIERENCE

Alberta Transportation has used the Ice Ban M50 anti-icing liquid for several years for stockpile treatment.

APPLICATION STANDARDS

The Alberta Transportation Specifications for ice control are:

- Specification 52.5, Sodium Chloride Treated Sand
- Specification 52.6, Calcium Chloride Treated Sand
- Specification 52.8, Supply of Sodium Chloride (Salt)

RECOMMENDATIONS

Ice Ban M50 be listed as a Trial Product and Ice Ban 200M and 300M be listed as Potential Products under Alberta Transportation's Products List, De-Icing Chemicals – Proprietary based on the information provided. Final acceptance as proven products will be based on field performance.

TRIAL PROJECTS

Ice Ban M50 used in the Southern Region for stockpile treatment

Joe Filice

cc New Product Evaluation Standing Committee – Terry Willis
Sal Hasham
Steve Otto