

STORMGUARD™

PRODUCT DESCRIPTION

Technology Applied: Specialty Turf & Ag has marketed StormGuard™ as a NON-ACETATE, performance-based proprietary non-chloride anti-icing/de-icing liquid. StormGuard™ is the result of research and development to provide a non-chloride with a low corrosion rate that will perform in low temperatures and fill the need for a non-acetate based product.

USES OR APPLICATION

Anti-Icing

Used as an anti-icer for roads or bridge decks, the melting capacity of StormGuard™ provides longer cycle times between applications. StormGuard™ lends itself to concrete structures where some acetates are prohibited.

De-Icing

Used as a liquid de-icer, StormGuard™ provides excellent melting performance. When applied in a stream pattern, StormGuard™ quickly penetrates through the snow pack and breaks the bond at the road surface.

Pre-Wetting

As an onboard pre-wetting agent for sand and other abrasives, StormGuard™ reduces bounce and scatter and increases the effectiveness of the abrasive.

Bridge Spray Systems or Fixed Automated Spray Technology

StormGuard™ was designed to maintain a lower viscosity to enable it to perform at low temperatures and still maintain spray patterns. This, coupled with its low corrosion rate and excellent performance, makes it the product of choice for bridges and other concrete structures.

TYPICAL PERFORMANCE PROPERTIES

StormGuard™ is a predictable product. The phase diagram to the right demonstrates the slow rising phase curve which illustrates very consistent and predictable performance. The viscosity of StormGuard™ allows it to flow at low temperatures, but still have enough viscosity to stay on the road longer. StormGuard™ will not dry out after a storm and "dust off" like acetate products. It will actually help reduce dust from abrasives and other roadway contaminants. StormGuard™ will not aggressively attack galvanized metals like acetate based products. StormGuard™ is environmentally friendly and will not harm roadside vegetation.

ANTI-ICING/DE-ICING

Corrosion Performance

The Pacific Northwest Snowfighters (PNS) coalition has adopted a test based on a modified version of NACE TM-01-69 to measure and rank de-icing chemicals in terms of relative corrosion toward ferrous metals. In this test, distilled water and salt are assigned relative corrosion rates of 0 and 100, respectively, and de-icing chemicals are ranked according to these two standards. To be considered for use in the PBS states, a de-icer must score 30 or less (70% less corrosive than salt) on this scale. In this test, StormGuard™ was found to have an average score of 13.9%.