

ICE & DUST-AWAY®

Contact & Support

Telephone: +45 7022 5055

Email: cma@photocat.net

or visit our website

www.icedustaway.com



PHOTOCAT

Photocat A/S
Langebjerg 4
4000 Roskilde
Denmark

Photocat is a Danish green technology company founded in 2009.

We are located outside Copenhagen, where we have research, development and production of products based on photocatalytic technology.

Our solutions break down air pollutants when exposed to light and apply to building materials and urban fixtures.

ICE & DUST AWAY is also one of our strategic products we offer in the effort to provide cleaner air and less damage on our earth.

We want to improve the quality of life and help reduce the enormous resources spent on health costs in communities due to air pollution.

ICE & DUST-AWAY

ECO friendly and efficient De-icer and Dust-suppressor in one!



ICE & DUST-AWAY®

ICE & DUST-AWAY is a NORDIC ECOLABEL product with double use, based on Calcium Magnesium Acetate and Potassium Formate, designed for reliable high-performance winter maintenance and reduction of Particulate Air Pollution (PM)

THE NUMEROUS ADVANTAGES OF ICE & DUST-AWAY

- Eco Label (SWAN)
- Reliable and efficient
- Very low freezing points
- Excellent de-icing properties
- Prevents slippery roads in up to 60 hours
- Easily biodegradable
- Non-hazardous to ground water
- Non-corrosive to any surfaces or any metals
- Non-aggressive towards plants and trees
- Non-toxic for animals and pets
- Can be applied preventive and on a maintenance level
- Comes in a “ready to use” liquid form, therefore does not blow away, as de-icers in dry form
- Reduces Particulate Air Pollution (PM) - up to 35% reduction in the daily PM10 average



The most non-corrosive eco-labelled de-icer on the market - compatible with any surface

The combination of Calcium Magnesium Acetate and Potassium Formate gives ICE & DUST-AWAY unique non-corrosive features, making it compatible with any surface or any metal, including galvanized metals. In 2017, Danish Storebælt authorities have announced the results of their own long-term corrosion trials performed in the period 2001-2017. The results show, that the subjects treated with 25% CMA solution showed no sign of corrosion. The subjects that have been treated with a 30% potassium formate solution have shown clear signs of corrosion in larger and smaller areas throughout the subject. The subject that has been treated with a 22% sodium chloride solution has corrosion around the edges, while surfaces have not been significantly corroded.*

A unique product which comes in a variety of formulations for more flexible application and use

Photocat A/S has developed a unique product for winter maintenance with a variety of product formulations, each designed for efficient performance at different weather and temperature conditions.

Product	Freezing Point
ICE & DUST-AWAY	-14 °C
ICE & DUST-AWAY +25	-19 °C
ICE & DUST-AWAY +50	-23 °C
ICE & DUST-AWAY +75	-31,5 °C

*Source: Guidelines on use of Deicers, DK National Road Committee, 2017

Effective for both preventive and curative treatment, ICE & DUST-AWAY is safe and easy to apply and has endless application possibilities:

Municipal Winter Maintenance – Especially used in areas, where it is necessary to protect trees, plants, water in ponds and lakes, as well as ground water.

In many Scandinavian cities ICE & DUST-AWAY is used by municipalities to reduce Particulate Air Pollution, which is especially high during winter season.

“The continuous use of ICE & DUST-AWAY by Stockholm Municipality during winter seasons on approximately 35 streets has resulted in an average reduction of around 35% in the daily PM10 averages.” *

Private Winter Maintenance – More and more business and home owners prefer the safe, efficient and ecofriendly alternative to salts, which is non-hazardous towards plants, trees and pets.

Transportation - Airport passenger- and arrival areas. Ferries. Train stations, platforms & bridges. Parking places and facilities. Bicycle paths. Sidewalks.

Shopping malls, Retail stores, Supermarkets, Restaurants - ICE & DUST-AWAY guarantees safe admittance to the facilities, while leaving no traces and residue inside.

Hotels - ICE & DUST-AWAY provides safety on parking and admittance areas and leaves no traces in the hotel halls and rooms.

Zoological gardens, animal hotels, farms, indoor and outdoor riding facilities – ICE & DUST-AWAY is the best choice of winter maintenance due to its safety, efficiency and absolutely no hazardous effect on animal health.

Artificial turf sport pitches – ICE & DUST-AWAY is perfect for winter maintenance of artificial turf sport pitches, as it is non-hazardous to people or natural water resources.

ICE & DUST-AWAY comes in a liquid form and is ready to use. It should not be diluted. Data sheet and SDS can be requested at cma@photocat.net

Dosage of the de-icer depends on many different factors. The following table indicates the indicative dose in grams per m² at different road temperatures.

ICE & DUST-AWAY	0 to -3 °C	-4 to -7 °C	-8 to -10 °C
Preventive spray against a layer of frost	10 g/m ²	10 g/m ²	10 g/m ²
After the removal of snow	20 g/m ²	35 g/m ²	50 g/m ²

ICE & DUST-AWAY PLUS 50	0 to -3 °C	-4 to -7 °C	-8 to -10 °C	-11 to -18 °C
Preventive spray against a layer of frost	10 g/m ²	10 g/m ²	10 g/m ²	10 g/m ²
After the removal of snow	20 g/m ²	30 g/m ²	40 g/m ²	50 g/m ²

Factors that influence the required dosage:

- Surface (stone, gravel, asphalt, concrete etc.). Smooth and solid surfaces generally require smaller amounts because the amount applied will not be drained off.
- Wind speed and temperature are very influential on the degree to which the surface is cooled off and thus on the dosed amount.
- Local traffic removes/relocates the applied de-icing agent. The heavier and faster the traffic, the higher the required doses.
- Precipitation. The anticipated amounts of rain or snowfall after applying the de-icing agent also have a large impact on the effect.
- Temperature. The actual temperatures after the de-icing agent has been applied also have a considerable impact on the effect.

There are many factors to consider when applying a de-icing agent. On the other hand, this has always been so in the case of conventional road salt.

*Source: Studies of some measures to reduce road dust emissions from paved roads in Scandinavia. Michael Norman, Christer Johansson, A Stockholm Environment and Health Administration



ICE & DUST-AWAY

ECO friendly and efficient
De-icer and Dust-suppressor in one!



ICE & DUST-AWAY®

PHOTOCAT