Dosing Manual for 18.10.2006

ICE & DUST-AWAY

CMA (**C**alcium **M**agnesium **A**cetate)

The dosing of de-icing agents depends on a variety of factors. The below values are listed as recommended doses in gram per square metre at different temperatures.

	0ºC to -3ºC (32ºF to 27ºF)	**-4ºC to -7ºC (26ºF to 19ºF)**	**-8ºC to -10ºC (18ºF to 14ºF)**
Preventive spraying against white frost	5 - 10 g/m^2	8 - 12 g/m^2	10 - 15 g/m^2
Glazed surfaces 0 - 1 mm	8 - 15 g/m^2	10 - 20 g/m^2	15 - 25 g/m^2
Glazed surfaces 2 - 5 mm	15 - 25 g/m^2	25 - 35 g/m^2	35 - 50 g/m^2

Factors having an impact on the necessary amount dosed:

- 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. These amounts are often unknown quantities.
- Temperature. The actual temperatures after the de-icing agent has been applied also have a considerable impact on the effect; and future temperatures are often unknown quantities.

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