

Huge cost savings

Instant de-icing to -21°C

Increase resilience

Easy to use

SAFETHAW 
the de-icing solution

What is it & How it works

Safethaw™ is the latest in liquid de-icing for footways and pedestrian areas to prevent the formation of ice. Safethaw™ is a powerful de-icer and effectively prevents the ice/pavement bond forming in addition Safethaw™ helps prevent snow compaction leading to treacherous conditions for pedestrians. Application requires significantly reduced operational resource and time. Footways can be treated faster than with traditional methods requiring Rock Salt.

Safethaw™ is a unique blend of natural de-icing products.

Benefits

- Instant de-icing down to -21°C , preventing ice and snow from bonding to pedestrian surfaces
- Consistent, accurate coverage of the target area
- Ease of application using existing equipment
- Speed of application reducing operational cost
- Trafficking not required
- Surface retention and reactivation
- Reduces volume of Rock Salt used
- 60% less corrosive than salt
- Reduces the risk of slips and trips causing injury and fatalities
- Increases “days salt stock resilience” for carriageway treatments



Why Safethaw

After two severe winters, the most recent being the worst winter for over 40 years resulted in UK Rock Salt stocks being completely depleted. Consequently the amount of salt being spread and the number of routes being treated was reduced to conserve stocks.

Footways and pedestrian areas particularly suffered from a lack of treatment, contributing to countless injuries and numerous fatalities as people simply slipped on icy surfaces.

Slips & Trips

As submitted by The Royal Society for the Prevention of Accidents to the Winter Resilience Review.

The table below shows overall hospital stays/admission as a result of falls and those specifically from a fall on ice and snow. In 2008/09, the number of hospital stays/admissions following a fall on snow or ice increased significantly whereas the figure for all falls did not. This period included February 2009, during which there was a period of heavy snow.

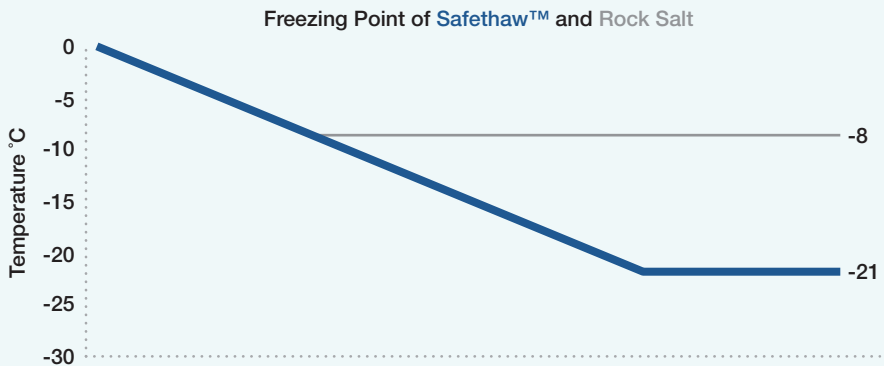
Number of hospital stays/admissions in England as a result of a fall on the same level 3.

Year	All Falls	Falls on Snow/Ice
2008/09	89,561	7,832
2007/08	88,344	1,306
2006/07	86,624	1,369
2005/06	85,069	2,248
2004/06	80,401	1,620

Technical

Safethaw™ is sprayed applied at a rate of 40mls/m².

Operating temperatures



Application Areas

- Footways
- Town centres
- Cycle ways
- Raised Structures
- Parking areas
- Subways
- Access areas to Schools
- Access areas to Hospitals & Doctors

Pack Sizes

Safethaw™ is available in:

- 24 x 20ltr drums palletized
- IBC's (1000ltr, intermediate bulk containers)



Application Equipment

- ATV with Safethaw Applicator, a 250ltr tank provides 5km of treatment at 1.2m footway width.
- Compact Tractor with Safethaw Applicator, a 650ltr tank provides 13.5km of treatment at 1.2 footway width.
- Existing Weed Spraying equipment such as knapsacks can be utilised by simply changing spray nozzles to a DT5.0 nozzle, providing 40ml/m² at a swath width of 1m.
- Even a simple watering can with a fan nozzle can be used very effectively.



Case Study

Scenario: 25km Footway Network (25,000m²)	Dry Rock Salt	Safethaw™
Volume of de-icing material required per treatment	15t	1,000ltr
Cost of material per treatment	£525	£1,200
Plant and Labour (3 x 2 man gang) per treatment	£1,500	–
Labour (1 man) per treatment	–	£80
1 x ATV / Safethaw™ Applicator (per treatment)	–	£130
Time for treatment	6.5 hrs	3 hrs
Increase "Days Salt Stock Resilience"	–	5
Labour required	6 operatives	1 operative
Freeze Depression Point	-7 / -8°C	-27°C
Environmental Benefit	–	Less CO₂ Emissions
Environmental Benefit	–	90% less chloride
Costs per treatment	£2,025	£1,410
Annual Costs based on an average 30 treatments	£60,750	£42,300

as suggested in the July 2010 **Winter Resilience Review**, authorities should review their current precautionary treatment of key footways and carriageways in adverse winter weather.

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