



RESIDENTIAL ANTI-ICING

What is anti-icing?

Anti-icing emphasizes prevention rather than reacting to snow/ice accumulation:

- Anti-icing is a pro-active approach to winter road and residential area maintenance. It involves the application of a saturated salt solution to roadways, driveways, sidewalks, and steps ahead of a winter storm.

Anti-icing prevents ice from forming and melts snow:

- Anti-icing forms a bond-breaker between hard surfaces and the snow and ice layer. Salt solutions melt snow more quickly and prevent ice forming on a surface. It is similar to how cooking oil prevents food from sticking to the frying pan.

Less salt is required to prevent ice bonding than to remove ice after it has bonded to the surface.

- Anti-icing can maintain safe, non-slippery surfaces and melt snow fall up to 2".

What are the benefits of anti-icing?

- **Improved Safety.** Improved winter conditions on roadways, driveways, sidewalks and steps means safer surroundings for you and your family.
- **Environmental Impacts.** Anti-icing results in an average 30% reduction in the amount of salt applied on a seasonal bases. This reduction decreases the environmental impact of chlorides (salt) on surface and water resources.
- **Time and Energy Savings.** By creating a bond-breaker between hard surfaces and the snow and ice layer, anti-icing prevents ice from forming on a surface. This saves you the time and effort of typical snow and ice removal.
- **Cost savings.** Anti-icing can decrease the amount of salt necessary and keep money in your pocket.



Anti-icing in left lane. No application in right lane.



Typical anti-icing equipment for roadways.



Anti-icing application



Anti-icing application vs. No application



HOW YOU CAN HELP

- Applying a brine solution (water and rock salt) to your driveways, sidewalks, and steps before a winter storm event will help create a safe area with less ice and snow.
- Utilizing an anti-icing container and a homemade salt solution you can be a part of the solution while saving time, energy, money, and helping the environment!

Create your own Anti-Icing Can

- You can create your own anti-icing can with many different types of containers, generally 100 ounces or more.
- Use the salt to water mixing ratio chart for use. Do not use more salt than recommended. More salt does not necessarily mean better results.



1
Drill eight to ten 1/8" holes into the top of the cap on whatever container you choose.



2
Drill a single 1/8" vent hole on the topside of the container, below the cap.



3
If there is an inner pour spout, carefully cut it out with razor knife.



4
An example of a finished container.

How to use the anti-icing can

1. Find volume of anti-icing container on the front label.
2. Measure appropriate amount of salt using salt to water mixing ratio chart below. Do not utilize more salt than recommended. More salt does not necessarily mean better results.
3. Pour measured salt into anti-icing container.
4. Fill anti-icing can to the top with warm water.
5. Place cap back on top of container.
6. Place hand or other object over the container cap to prevent spilling during mixing.
7. Shake container until salt rocks are dissolved. Some undissolved impurities will remain present.
8. Use anti-icing can to spread lines of salt solution over outside surfaces such as driveways, sidewalks, and steps. Application works best prior to winter storm events.
9. Repeat steps before any winter storm event or weekly during winter season.
10. Effectiveness increases after several applications as salt enters concrete/asphalt pores.

Anti-icing is effective down to pavement/sidewalk temperatures of 20°F.

Water to Salt Mixing Ratios	
 100 oz. Water	+  3 Cups Rock Salt
 1 Gallon Water	+  3.5 Cups Rock Salt
 150 oz. Water	+  4.5 Cups Rock Salt
 2.5 Gallons Water	+  8.75 Cups Rock Salt