Corrosion Mitigation in Maintenance Equipment

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Clear Roads Project 13-04: Best Practices for the Prevention of Corrosion on Vehicles and Equipment used by Transportation Agencies for Snow and Ice Control
Corrosion Resistant Materials

Specifying corrosion resistant coatings on your winter maintenance fleet and/or attachments such as epoxies or other paint systems?

Yes, 100%
Specifying corrosion resistant coatings on your winter maintenance fleet and/or attachments such as epoxies or other paint systems?

- Stainless Steel Powder Coating: Yes 44%
- 2-part epoxies: Yes 44%
- Dolphin undercoating: Yes 44%
- Bed Liner coatings: Yes 44%
- NR 8%
- No 48%
Other Preventative Measures

Utilizing other preventative measures like dielectric greases, special enclosures, sacrificial anodes

- Weatherproof enclosures (80%)
- Strategic placement (12%)
- No electrical splices (8%)
- Sealed looms (NR)
Programs for Rehabilitation

Dedicated programs for rehabilitation or replacement of corroded elements

- Yes: 44%
- No: 52%
- NR: 4%
Policies for Equipment Washing

Programs or Policies the specify frequent equipment washing

- Yes: 60%
- No: 28%
- NR: 12%
Neutralizers & Corrosion Inhibitors

Use of neutralizers, spray-on corrosion inhibitors, or other similar products

- Yes: 80%
- No: 12%
- NR: 8%

Fluid Film
Chloride Neutralizer
Neutro-wash
Lubra Seal
Other Corrosion Programs

Any other corrosion related programs or products implemented

- Yes: 44%
- No: 32%
- NR: 24%
Other Programs

- Utilize as much stainless steel as possible (ID)
- Bed Chain lubricants (MA)
- Requiring single frame rails, Aluminum rims (MD)
- Using PNS specs for materials so materials have corrosion value 70% less than salt (OH)
- Composite lighting in place of Aluminum (VT)
Thank you for your attention

Complete survey responses available at
https://sicop.transportation.org/resources/surveys/

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