

Extend Bridge Pier and Parapet Life. Lower Annualized Costs.

Minimize life-cycle maintenance through a proactive & preventative method – Poly Salt Armor® shield and panel technology.

Reduce Costs

Poly Salt Armor® shield and panel technologies are sustainable, bridge preservation devices, engineered to extend bridge lifespan while reducing annualized costs. Their patented, modular panels are manufactured to meet a 20+ year lifespan. They are made from virgin, high-density polyethylene (HDPE) & color-enhanced UV stabilizer, are 100% recyclable, and proudly made in the USA.

Extend Service Life

Poly Salt Armor® shield and panel technologies protect bridge piers and parapets from the damaging effects of road debris and provide ultraviolet protection. The shields work by creating a gap of air between the concrete and shield itself. By eliminating/minimizing impact in the splash-zone, absorption is removed from the list of deteriorating effects, adding years to the life of the structure.

Improve Inventory Management

Poly Salt Armor® shield and panel technologies are innovative bridge preservation tools that fit perfectly into your asset and performance management strategies. Preserve highway mobility, protect your bridge investments, and show good stewardship of public funding with these easy, customizable technologies.

Rely on an Innovative Solution

Ongoing field studies began in 2013 to verify effectiveness in keeping piers looking and performing as new. Stress Engineering Services (SES) performed third-party testing to provide a lifetime assessment of the Poly Salt Armor® shield technology. Based on this research, SES determined that the shield technology is likely to function as intended for at least 20 years or more.



A Proactive Approach to Bridge Preservation reduces



IMPACT DETERIORATION REPAIRS

The Problem for Piers

The DOT has stated a requirement/need to extend the life-cycle of its bridge assets between install and repair/replacement. Poly Salt Armor® shield technology provides a proactive, cost effective approach to fulfill this stated requirement and provide longer life between maintenance, repair, and replacement cycles.

Proactive Preservation

Poly Salt Armor® shield technology is the proactive way to extend the life of your bridges. It reduces the effects of the road debris impact, moisture, and UV exposure. This preventative approach protects and delays the need for future maintenance, repair, and replacement.

Improved Safety

Poly Salt Armor® shield technology installs easily behind the barrier wall (where they exist) and keeps workers out of harms way. It eliminates the need to close active lanes of traffic or change traffic patterns at a risk to drivers. It also eliminates the need to expose safety crews or traffic officers to merging traffic.

Easily Installed

Installation can be completed with a small crew and requires no heavy equipment. The standard process requires only 30-50 minutes per pier.

Inspection Friendly

Easily-removed panels allow for annual inspections in a short period of time. Once the inspection process is complete, the individual panels are easily replaced without removing the entire assembly. Windows/openings at the base, provide for visual inspection of any fallen debris or decay.

Customizable Options

Poly Salt Armor® shield technology comes in custom colors and various textures to match the bridge or its environment, and can accommodate local, city, or state branding.

The Problem For Parapets

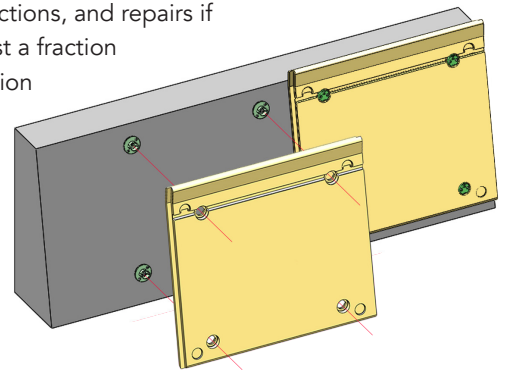
Harsh freeze-thaw cycles and increased utilization of aggressive de-icing solutions are increasingly impacting bridge parapets. Spalling in particular presents a real danger to commuters as deteriorated concrete falls onto roads below. Given the sheer volume of these failures, repairs are years behind in completion.

Proactive Preservation

Prevention is the best solution for delaying parapet deterioration. Poly Salt Armor® parapet panel technology has been engineered to keep ice, de-icing solutions, and water away from concrete parapets, preventing moisture absorption and minimizing the effects of freeze/thaw cycles.

Improved Safety

Poly Salt Armor® panel technology is manufactured with lab-tested and field-studied, high-density polyethylene (HDPE) to provide a minimum 20-year lifespan. This lightweight material and double-wall construction allows for easy installation, removal for inspections, and repairs if needed. They cost a fraction of current protection and repair methods and reduce the liability from falling debris.



Same Great Quality and Features

Poly Salt Armor® Parapet panel technology features the same great attributes as our shield technology:

- Improved safety
- Easily installed
- Inspection friendly
- Customizable options

