



Innovative Concrete Care Solutions for Modern Construction and Maintenance

The Lavo Bot and Sherpa Drone represent the future of concrete care, offering automated solutions that enhance efficiency, safety, and quality in every phase of construction and maintenance. By embracing these technologies, you can take your projects to the next level, delivering exceptional results faster and more safely than ever before. Whether it's cleaning, curing, sealing, or decorative treatments, these advanced tools are designed to meet the needs of modern construction in the most effective way possible.



01 Surface Preparation and Cleaning

Cleaning Large Flat Concrete Surfaces with the Lavo Bot

The Lavo Bot provides an automated cleaning solution for large flat surfaces like driveways, parking lots, sidewalks, and industrial floors. It removes dirt, debris, oil stains, and contaminants, preparing surfaces for sealing or coating efficiently, reducing prep time, and boosting productivity.

Pressure Washing Vertical Structures with the Sherpa Drone

The Sherpa Drone cleans vertical surfaces like walls and pillars, eliminating the need for scaffolding or heavy machinery. It safely uses high-pressure washing to remove graffiti, mold, mildew, and environmental pollutants, offering a faster, safer, and more effective solution.

02 Curing and Moisture Management

Wet Curing of Fresh Concrete with Both Devices

Proper moisture levels are crucial for concrete strength. The Lavo Bot evenly waters large slabs for wet curing, while the Sherpa Drone handles vertical surfaces and hard-to-reach areas. Together, they ensure optimal curing, preventing cracks and improving durability.

Application of Curing Compounds

Both devices can apply curing compounds to control moisture loss. The Lavo Bot and Sherpa Drone spray these agents, strengthening concrete surfaces, making them ideal for both flat slabs and intricate vertical areas.

03 Application of Sealants and Protective Coatings

Sealing Flat Surfaces with the Lavo Bot

The Lavo Bot automates uniform sealant application on large surfaces, protecting against wear, weather, and chemicals, reducing maintenance and extending lifespan.

Sealing Vertical and Hard-to-Reach Areas with the Sherpa Drone

The Sherpa Drone efficiently applies sealants to vertical structures, ensuring even coverage and enhanced protection, speeding up the process without compromising quality.

04 Decorative Treatments

Applying Stains and Dyes

The Lavo Bot ensures consistent stain distribution on flat surfaces, while the Sherpa Drone handles vertical structures, delivering uniform, professional results.

Artistic Surface Treatments

Both devices can apply artistic designs or patterns with precision, achieving intricate decorative finishes on horizontal and vertical concrete surfaces.

05 Maintenance and Repair

Surface Repair Preparation

Before repairing damaged concrete areas, proper preparation is essential. Both devices efficiently clean and prepare surfaces, ensuring that the area is ready for repair or overlay applications.

Efflorescence and Contaminant Removal

Efflorescence, the white salt deposit that often appears on concrete surfaces, can weaken concrete over time. The Lavo Bot and Sherpa Drone are designed to eliminate these deposits, as well as other contaminants, helping to preserve the structural integrity of concrete surfaces.

06 Safety Enhancements

Applying Anti-Slip Coatings

Safety is paramount in high-traffic areas. The Lavo Bot can distribute anti-slip coatings on floors, ramps, and walkways, significantly reducing the risk of slips and falls. The Sherpa Drone extends this capability to elevated surfaces, ensuring comprehensive safety across the entire site.

Spraying Fireproofing Agents

For structures that need enhanced fire resistance, the Sherpa Drone can apply fireproofing agents quickly and efficiently. This helps protect concrete structures from fire hazards, ensuring safety in critical areas.

07 Environmental Control

Dust Suppression

During demolition or site preparation, dust can become a significant issue. Both the Lavo Bot and Sherpa Drone can spray water to control dust, creating a cleaner, safer environment for workers and surrounding areas.

08 Accessibility and Safety Improvements

Working in Hazardous or Inaccessible Areas

Utilizing the Sherpa Drone to access hazardous or hard-to-reach areas reduces the risk to workers, eliminating the need for scaffolding or ladders. This not only improves worker safety but also speeds up project timelines.

Reducing Manual Labor

Automation significantly reduces the physical strain on workers by handling repetitive tasks. This minimizes worker fatigue and lowers the potential for accidents on the job site, making it a win-win for both productivity and safety.

09 Innovative Applications

Applying Release Agents

In concrete casting, applying release agents to molds is critical to ensure easy removal after curing. The Sherpa Drone can quickly and evenly spray release agents on molds, streamlining this process for vertical and hard-to-reach areas.

10 Environmental Cleanup

Spill Response

In the event of hazardous material spills on concrete surfaces, time is of the essence. Both the Lavo Bot and Sherpa Drone can quickly clean up spills, preventing environmental contamination and ensuring regulatory compliance.

Site Cleanup Post-Construction

After the completion of a project, thorough site cleanup is necessary to prepare the area for handover. The Lavo Bot and Sherpa Drone effectively remove debris and residues, leaving the site clean and ready for use.

