HAWKSEALE

Sprayer & Tool Guide

Equipment Recommendations for Applying HawkSeale
to Asphalt Millings and Existing Pavement



Boom sprayer applying HawkSeale solution to a road surface

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1. Two Products, Two Application Methods

HawkSeale is shipped as a **concentrate**. Mix **1 gallon HS concentrate to 9 gallons water**. Can be adjusted 5% leaner or richer. Do not over-dilute. Stir gently — do NOT whip or aggressively mix.

	Millings Rejuvenator (Glue)	Preservative Sealer (Existing Asphalt)
Purpose	Re-bonds RAP/millings into a hard, durable, snow-plowable surface	Fills cracks, voids, and fissures from the bottom up
Application Rate	~1 gallon solution per sq/yd	0.35–0.42 gal solution per sq/yd
Number of Coats	3 coats to point of puddling	3 coats; first absorbs ~half
Application Method	Sprayer with wand or boom (HIGH volume required)	Sprayer, foam roller, or heavy-knap paint roller
Compaction	Yes — 5,000#+ roller within 4 hrs	Not required
Traffic Resume	Light straight: immediately Heavy turning: 2–10 days	As soon as surface is dry (usually a few hours)

■ Lawn sprayers and backpack sprayers are NOT recommended for millings — they do not provide sufficient volume. Think soaking rain, not a sprinkle.

• Backpack/lawn sprayers *can* work for existing asphalt sealing where less volume is needed.

2. Equipment for Small Projects



Sprinkle can with drilled holes for fan-like application

Sprinkle Can (Both Products)

- 2-gallon sprinkle can — drill additional 1/8" holes vertically in spout
- Creates a fan-like application with side-to-side motion
- Works for both millings and existing asphalt on small areas

Heavy-Knap Paint Roller (Existing Asphalt Only)

- Foam or heavy-knap roller on a broomstick for small sealing projects

- Not suitable for millings — need high volume, not surface coating

12V 5.5 GPM RV Pump + Wand



12V RV diaphragm pump with auto pressure shut-off

- ~$100–$150 total: pump + 25–50 ft non-kinking garden hose + lever shut-off wand
- Auto pressure shut-off prevents dead-heading
- Can also supply a 4-ft boom with 4 spray tips (80-20 fan jets, 2 GPM each)

■ HS is an adhesive — pistol-style spray wands will stick open. Use lever-valve wands.

3. Equipment for Medium & Large Projects

Pump / Setup	Boom Size	Best For
12V 5.5 GPM pump	4-ft boom, 4 tips	Medium driveways, parking areas
12V 7.0 GPM pump	6-ft boom, 6 tips	Larger projects; also transfers concentrate
1–2" trash pump	Large boom, 80-50 tips	Commercial / municipal scale



Custom boom with fan jet nozzles mounted every 6–12 inches

Boom Construction

- Build from 1" square tubing or PVC pipe with ½" couplings every 6–12"
- Carry boom 16–18" off the ground; nozzles must overlap for even coverage
- Use **80-20 fan jet nozzles** (80° fan, 2 GPM each)
- Nozzles available at asphaltstore.com or from Hawk Seale

Tank & Sprayer Setup



Skid-mounted tank and pump in truck bed

- Any large container: garbage cans, drums, IBC totes, truck-mounted tanks
- Ag suppliers often have used IBC tanks for free or low cost
- Use snap couplers for easy connecting/disconnecting
- Install a tee and valve on return line to adjust flow and prevent dead-heading
- Trash pumps: run at low-medium idle — wide open pushes seals out

4. Mixing & Plumbing



IBC tote for mixing HS concentrate with water

Mix Ratio

- **1 gallon HS concentrate to 9 gallons water**
- Can adjust 5% leaner or richer — do not over-dilute
- Stir gently; do NOT whip or aggressively mix
- Mixed solution can sit in tanks several days with minimal settling

Hose & Plumbing Notes

- 5/8" hose: max 50 ft | ¾" hose: max 75 ft
- Longer runs restrict flow — adhesives build up and plug nozzles
- Install window-screen mesh filter on pump inlet
- ■ **Do NOT use impeller/gear pumps or roller pumps — causes copolymer separation.**
- ■ **Do NOT use sump pumps — dead-heading separates copolymers and clogs system.**

DIY Wand Construction

- ¾" aluminum broom handle or ½" tiki torch pipe (lightweight)
- Cut 6–8" piece for handle/valve grip; 3–5 ft for wand length
- Shark-bite connectors + valve + 22° elbow + ½" threaded 80-50 fan jet nozzle
- ■ **Do NOT use galvanized pipe (too heavy) or PVC/PEX (too flimsy).**

5. Compaction (Millings Only)



Ride-on roller compacting HawkSeale-treated millings

- Begin compaction as soon as solution absorbs or within 4 hours
- **5,000# or heavier ride-on roller** or vibrating plate compactor for smaller areas
- 4–6 passes over and back is usually adequate
- Steel rollers squeeze solution down for smoother finish — use water to prevent sticking
- Treated millings compact ~30% in depth; previously compacted compress another ~¼"
- Surface may feel soft like carpet — cures hard in hours to days depending on temp

■ **DO NOT over-compact — causes rippling and flaking.**

■ **DO NOT vibrate after initial compaction — damages adhesion and re-bonding.**

Curing

- 2–10 days at 65–85°F for heavy turning traffic
- Light straight traffic can begin immediately
- Below 60°F or above 95°F: cure time extends to 10–14+ days
- Do NOT apply below 55°F ground temp or if freezing risk within 72 hours

6. Cleanup, Safety & Storage

Cleanup

- Rinse all pumps, hoses, and equipment with water **immediately** after use
- HS leaves residue in tanks and on equipment — some tools will be single-use
- WD-40, diesel, Oil Vanish, or ZEP Degreaser removes dried product
- Paint stripper or acetone for hardened HS on equipment/hard surfaces
- Diesel fuel for winterizing equipment and lubricating valves
- Hair conditioner works for hands

Spills

- Flush or dilute immediately with water
- Dirt, sand, lime, or gravel absorbs spills
- Diluted solution can be broomed onto pavement — will sun-fade over time

Safety

- Keep out of eyes. See the Safety Data Sheet (SDS) for hazards and first aid.
- Will not harm pets, fish, shrubs, or grass when diluted
- Wear old clothing, rubber-soled boots, gloves, goggles
- Restrain dogs/cats until surface dries — they will track product

■ **Always wear heavy rubber-soled shoes when using electrical devices around liquids.**

Storage

- Cool, dry area; avoid freezing and direct sunlight; use within 3–6 months

We hope this guide provided the basics for constructing a simple sprayer setup. Your sprayer can be as simple or elaborate as your project requires. Please see our **Application Guide** for more in-depth application instructions.

While we provide a proven product that has performed as represented for thousands of satisfied customers for over 15+ years, we cannot and do not offer or imply any warranty or guarantee, return, or refund due to variables beyond our control.