APPLICATION & EQUIPMENT GUIDE

For Preserving Asphalt & Rejuvenating Millings

HAWKSEALE CONCENTRATE · BIO-ENHANCED ASPHALT REJUVENATOR

MIX RATIO	1 part concentrate : 9 parts water
MILLINGS COVERAGE	~1 gal solution / sq yd (~90 sq ft / gal concentrate)
EXISTING ASPHALT	0.35–0.42 gal solution / sq yd
CURE TIME	2–10 days at 65–85°F
SURFACE MIN TEMP	55°F ground temperature

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1. Introduction

HawkSeale is a proprietary concentrate formulated to re-bond Recycled Asphalt Pavement (RAP or "millings") into a non-tracking, non-eroding durable surface that stands up to cold and hot climates and all types of traffic, similar to hot mix. When applied to millings, HawkSeale rejuvenates and re-bonds the aggregate in a cold-process vs. the typical hot process.

HawkSeale-treated millings can save **40% to 60%** over using hot-mix asphalt, depending on the cost of the millings. When used to seal and preserve existing asphalt, HawkSeale penetrates the pavement to fill voids and fissures, preventing air and moisture from entering — the two main causes of asphalt deterioration.

2. Mix Ratio & Application Rate

- **Mix Ratio:** 1 gallon HS Concentrate to 9 gallons water. Adjustable 5% leaner or richer. **Do not over-dilute.**
- **Millings Application Rate:** ~1 gallon of HS solution per square yard.
- **Existing Asphalt Rate:** 0.37 to 0.42 gallons per sq yd depending on condition.
- **Important:** Do not over-dilute or under-apply — it will reduce effectiveness.
- Minimal mixing needed — stir gently. **Do NOT whip or aggressively mix.**

3. Equipment Options

Equipment	Best For	Notes
Garden sprinkle can (drill 1/8" holes in diffuser)	Very small projects	Fan-like application
12V 5.5 GPM RV diaphragm pump + garden hose + wand	Small to medium projects	~$120 total · auto pressure shut-off
12V 5.5 GPM pump + 4 ft boom (4 tips)	Medium projects	80-20 fan tips, 2 GPM each
12V 7.0 GPM pump + 6 ft boom (6 tips)	Larger projects	Also transfers concentrate
1" or 2" trash pump + large boom (80-50 tips)	Large / commercial projects	Run at slowest adequate speed

Important Notes on Equipment

- **Pump-up sprayers and small backpack sprayers do NOT** deliver sufficient volume for millings.
- Think of a good soaking rain vs. a sprinkling rain — penetration matters.
- HS solution must have constant flow — prevent deadheading/cavitation.
- Avoid impeller/gear pumps for mixed solution (causes separation/gelling).
- Roller pumps will not work (adhesives prevent function).

4. Millings Application Process

Step 1 — Surface Preparation

Spread and grade millings to a minimum **2 inch** depth (**3–4 inch** recommended). Expect ~30% compaction. Depths over 4" should be placed in lifts/layers.

Step 2 — Application

Apply in **3 passes** until puddling occurs:

- 1st coat: absorbs ~½ gallon per sq yd
- 2nd coat: absorbs ~1 gallon per sq yd
- 3rd coat: absorbs the balance to ~1 gallon per sq yd
- Each coat can be applied as soon as the previous coat is absorbed.
- Rate is self-determining — dry or porous areas absorb more.

Step 3 — Compaction

Begin as soon as solution is absorbed, or within **4 hours**.

- Use a 4 ft (5,000 lb or heavier) ride-on roller or a vibrating plate compactor.
- Steel rollers squeeze solution down for a smoother finish (water the drum to prevent sticking).
- 4–6 passes back and forth is usually adequate.
- **DO NOT over-compact** (causes rippling/flaking).
- **DO NOT use heavy vibrating compactors** after initial compaction.

Step 4 — Curing

- **2–10 days at 65–85°F.**
- Warmer temps = better penetration and shorter cure time.
- **DO NOT apply below 55°F ground temperature** or if freezing risk within 72 hours.
- Heat above 90°F + high humidity can extend cure to 3–4 weeks.
- Light straight traffic can begin immediately.
- Avoid turning traffic, overnight parking, ATVs, and heavy trucks until fully cured.

5. Existing Asphalt Application

- Apply in 3 coats totaling **0.35–0.42 gallons per sq yd**.
- 1st coat absorbs ~half; successive coats absorb less until run-off.
- Very porous pavements may need more than 3 coats.
- Traffic can begin as soon as the surface is dry (usually a few hours).
- Cracks **> ¼ inch** should be filled first; clean surface of debris before application.

6. Maintenance & Repairs

Pothole Patching

Remove loose material, apply HS to the hole plus 6–8" of surrounding area, fill with millings 1" above surface, saturate, and compact.

Re-sealing

~**0.25–0.35 gallons per sq yd** for maintenance re-application.

Curbs & Drains

Mix 1 gal HS to 8 gal water + millings into a thick slurry, use forms, and cure like concrete.

7. Handling & Safety

- HS is non-toxic and will not cause skin irritation. **Keep out of eyes.**
- Will not harm pets, fish, shrubs, or grass when diluted.
- Use clean, uncontaminated pumps and tanks.
- Wear old clothing, boots, gloves, and goggles.
- **Spills:** Flush immediately with water; use dirt/sand/lime to absorb.
- **Cleanup:** WD-40, diesel, or ZEP Degreaser; hair conditioner for hands.
- **Storage:** Cool, dry area; avoid freezing and direct sun; use within 3–6 months.
- Rinse equipment immediately after use.

For full chemical-safety information, download the SDS at **hawkseale.co/downloads/HawkSeale_SDS.pdf**.

8. Disclaimer

While Hawk Seale Distributing provides 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 — including mixing, handling, storage, application process, compaction, weather conditions, and the quality or condition of the millings or surfaces being treated.