APPLICATION GUIDE

# Sealer Application Guide

PRESERVING AND SEALING EXISTING ASPHALT • REVISED 11-11-26

Hawk Seale is a proprietary concentrate formulated to preserve and seal existing asphalt pavement with a one-time application. After normal sun fading, HawkSeale Asphalt Sealer or any box-store sealer can be used for a blacker color if desired.

**1 : 9**
1 gal HS Concentrate + 9 gal water = 10 gal HS Solution

**0.35–0.42**
Gallons of solution per sq yd, total, depending on porosity

**3 coats**
Each coat to the point of puddling; very porous pavement may take 4

**Traffic right away**
Once dry enough not to track onto other surfaces

### How it works

HS works like a penetrating wood sealer works on wood — by filling the pores. Hot-mix asphalt has 5 to 8 percent air voids after compaction. HS Solution's thin viscosity penetrates the asphalt to fill the voids and fissures, preventing air and surface moisture — and moisture perking up from the base underneath — from entering the pavement. Those are the main causes of asphalt deterioration.

### Mix ratio

The recommended ratio is **1 gallon HS Concentrate to 9 gallons water**, adjustable 5% leaner or richer to match the quantity your project needs. **Do not over-dilute.**

Minimal mixing is needed — **do not** whip or aggressively mix; stir like paint. Any clean tank, tote, drum, trash can or larger container can be used for mixing.

Treating millings instead? HS also rejuvenates and re-bonds asphalt millings — see the **Millings Application Guide** at hawkseale.com/guides/application-guide.

# Applying the solution

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Application can be done with a sprayer or a heavy-nap roller — spraying is more efficient. Asphalt will typically absorb a total of **0.35 to 0.42 gallon of HS Solution per square yard**, depending on how porous the pavement is.

| COAT | WHAT HAPPENS | WHEN TO APPLY |
|---|---|---|
| **1st coat** | Absorbs about half the total solution; apply to the point of puddling or run-off. | — |
| **2nd coat** | Absorbs less; the pavement fills from the bottom up. | As soon as the previous coat is absorbed. |
| **3rd coat** | Fills the remaining voids. Very porous pavement may need a 4th coat. | As soon as the previous coat is absorbed. |

### The rate is self-determining

- More porous areas absorb more to fill the pavement to the point of immediate run-off.
- Traffic lanes may not absorb as deep as softer shoulders and centers of roadways.
- Once the fissures and voids are filled, the solution immediately puddles and begins to run off — the pavement is full.

### Surface prep & conditions

- Remove dirt, grass and weeds from cracks before application. Cracks larger than 1/4 inch should be filled with crack filler or millings.
- Allow 4 to 6 hours before rain.
- Application is **not** recommended below 55°F ground temperature, or if there is a risk of freezing within 72 hours. Colder temperatures reduce penetration and bonding and slow curing significantly.
- When applying large quantities or multiple tanks, install a screen (window-screen mesh) in the intake line ahead of the pump.

### Traffic, striping & fading

- Traffic can begin immediately, but be aware of wet sealer tracking onto other surfaces. Keep pets off until the surface is dry.
- Pavement can be re-striped or painted after application.
- Expect normal sun fading. Pavement can be re-sealed with HawkSeale's Asphalt Sealer to restore the black color (check the website for availability).

### Re-sealing later

Re-sealing with HS requires approximately 0.2 to 0.3 gallon of HS Solution per square yard to preserve and extend the life of your asphalt.

# Equipment



### The simplest sprayer system

A **12-volt 5.5 or 7.0 GPM diaphragm pump** with auto pressure shut-off, a 25–50 ft non-kinking garden hose and a lever ball-valve sprayer wand, drawing from any larger mixing container.

- The 5.5 GPM pump supplies a 4-ft boom with 4 "80-20" 2-GPM 80° fan tips built from 1/4-inch pipe; the 7 GPM pump supplies a 6-ft boom with 6 tips. Similar-volume tips can be substituted.
- Either pump can run two booms in tandem to cover 8 to 12 ft widths.
- The 7 GPM pump can also transfer the heavier HS Concentrate; the 5.5 GPM pump will not pump undiluted concentrate.
- Maximum hose: 5/8 in × 50 ft for small pumps, up to 3/4 in × 75 ft for higher-volume pumps.
- Sample pumps: **12-volt RV pumps with auto shut-off** (online $45–$85, also at Home Depot or Amazon). Wands: **sample spray wand**. Tips: **nacsupply.com**.
- Pump kits and parts lists: **hawkseale.com/shop**. Full details in the Sprayer & Tool Guide at **hawkseale.com/resources**.

### Larger setups

- 1- or 2-inch water trash pumps with (80-50) 80° 5-GPM fan-jet tips (**sample trash pumps**, or your local hardware).
- Run trash pumps at the slowest speed that still provides adequate pressure to the boom or wand.
- Use a valved return line back to the tank; adjusting the valve controls pressure to the sprayer tips.
- Compressor-driven diaphragm pumps and clean commercial seal-coat applicators also work, provided no other product is in the tank to react with HS.

### What not to use

- Electric sump pumps and other impeller or gear pumps are **not** recommended for applying mixed solution — high-RPM impellers can separate and gel the copolymers. (Sump pumps may transfer concentrate unrestricted: switch power on and off; never stop flow with a valve.)
- PTO roller pumps will not work — the adhesives stop the rollers.
- Pump-up, backpack and small lawn sprayers do not deliver enough volume for efficient application. Think of a good soaking rain versus a sprinkling rain.
- Garden sprinkle cans work only for very small areas: drill 1/8-inch holes vertically in the diffuser for a fan-like pattern.

**Keep the solution flowing.** HS must have constant flow to prevent dead-heading or cavitation in the pump, which can cause gelling and push out the pump seals when flow is shut off at the wand or boom. Small-diameter valves and hoses can restrict flow and separate copolymers. Avoid long periods of agitation or circulation before application.

# Repairs, handling & storage



## Pot-hole patching

1. Remove loose aggregate and dirt from the hole, then apply a coat of HS Solution to the pothole and the surrounding 6 to 8 inches.
2. Fill the hole with millings or pot-hole patch material about an inch higher than the surrounding surface.
3. Saturate the patch and again an area 6 to 8 inches larger, to keep air and moisture out of the sides.
4. Compact the patch. Light, straight traffic can begin immediately.

Screening millings through 1/2-inch hardware cloth removes larger aggregate and makes blending the surfaces easier.

## Curbs & drains

HS can form curbs, roll-over speed bumps, water diversion and shaping around drains: mix millings and HS (1 gallon HS to 8 gallons water) into a thick slurry similar to mixing concrete. Use forms as needed and allow to cure like concrete.

## Spills

Immediately flush with water to dilute. Dirt, sand, lime or millings can be used to soak up spills for removal; flush grass areas with water. Mineral spirits or similar products remove HS from hard surfaces. Asphalt or concrete surfaces will be sealed and stained by the solution; sun fades the stain over time.

## Mixing & handling

- Gloves, boots, old shoes and clothes, coveralls and eye protection are recommended.
- Use clean, uncontaminated pumps and tanks. Some tools may be one-time use.
- HS is an adhesive product and will leave a residue inside tanks, pumps and hoses.
- Rinse pumps, hoses and tools immediately after use.
- Once exposed to air, HS becomes very tacky — use mineral spirits, Oil Vanish, Zep Industrial Cleaner or similar products for cleanup. Dried-on HS requires paint stripper or acetone.
- For hands and personal cleanup, common hair conditioner cuts most adhesives without irritation.
- HS is non-toxic and does not cause skin irritation. Keep out of eyes.
- HS will not harm pets or fish, shrubs or grass when diluted with water.

## Storage

- Store in a cool, dry area; avoid freezing and direct hot sun.
- Mixed HS Solution stores in an airtight container, similar to latex paint.
- We recommend using Hawk Seale within 3 to 6 months. Maximum shelf life is not known at this time.

**Questions about your project?**

Visit **hawkseale.com** for tutorials, videos and the full guide library, call **515-517-2288**, or email **info@hawkseale.com**.

**DISCLAIMER:** 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, including the mixing, handling, storage, application process, compaction, weather conditions, and quality or condition of the millings or surfaces applied to.