



ASPHALT RELEASE



BRODY
CHEMICAL

An aerial photograph showing a road construction site. A yellow machine, likely a curb former, is positioned on the left side of the frame, creating a concrete curb along the edge of a newly paved asphalt road. The ground to the left of the curb is dirt with visible tire tracks. The road surface is dark asphalt, and the concrete curb is a light grey color. The machine has a large yellow hopper and a metal frame with rollers.

WELCOME TO BRODY CHEMICAL

Brody Chemical began operations in Salt Lake City, Utah in 1975. Since then, the company has grown from a small local company to one that provides superior products and services to over half of the United States. Brody's success is attributed to its commitment to create innovative and highly effective products—manufactured under strict quality control standards, a responsive technical support team, and a professional, well-trained, service-driven sales force. Brody Chemical's comprehensive product line boasts over 600 different formulations of sanitation, institutional, industrial and maintenance chemicals for professional use. Reducing the risks associated with chemical usage and disposal, avoiding depletion of the Earth's natural resources, and enhancing the safety and work environment for clients are core values of Brody Chemical.

THE ELIMINATOR

Automatic Drive-Thru system
United States Patent 6,863,223

This system is equipped to apply a diluted mixture of First Choice asphalt release agent at the rate of 1.5gl of diluted material in 12sec, applying an even coating to all surfaces to be protected. Dilutions are as follows: [our system comes equipped with two preset dilution ratios]

Ratio 1 (for polymer and crumb rubber asphalt mix designs/ high ac content) 946ml of First Choice is diluted with 473 lml of water then applied to truck bed.

Ratio 2 (for conventional asphalt mix designs and low polymer (less than 4% ac)) 378ml of First Choice is diluted with 5299ml of water then applied to truck bed.

Ratio calculations are based on 1hp pump running through a single scale drive-thru system set to run 12sec. one application only.

- Saves precious load-out time.
- Eliminates accidents on spray rack.
- Helps eliminate loitering of drivers.
- With adjustable spray times.
- With infrared detection system.
- Will evenly spray First Choice into truck beds, prior to loading hot mix.
- Applies fast even coatings of First Choice in less than 8-10 sec. for tandem and tri-axel trucks and 12-14 sec. on long trailer and live bottom trucks.
- Will run multiple spray locations, one, two and even three scale sprayers from single unit, all at the same time. Others have tried, and yet, many have failed.



- Available with control tower interface to be fully operational from the control tower to operate, Fully-Automatic or Semi-Automatic and offers on/off operation to select who gets sprayed

REQUIREMENTS:

Power: 120v@11 FLA (minimum power requirements: 115v at motor, 20amp breaker 12ga wire 100' maximum.)
Water: 1gpm minimum preferred 3-4gpm. System can be equipped to draw from water tank.

*U.S. Patents Allowed and Issued for No. 1 and the Eliminator.
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ASPHALT RELEASE SPRAYER

Lafferty Equipment Manufacturing, Inc. Installation & Operation Instructions

REQUIREMENTS

Chemical Concentrate Static Tank of Water
Compressed Air _____ up to 4 CFM
Hose _____ 1/2" ID x 25'
Nozzle _____ 2520

OPTIONS

Stainless Steel Hose Rack
Large _____ # 224150

Stainless Steel Jug Racks
2 1/2 gal. (8 1/2" x 10 1/2") _____ # 224210
5 Gallon (12" x 12") _____ # 224215
5 Gallon Round Locking _____ # 224216

Drum & Tote Stick Lengths, Styles & Seal Materials
Drum Stick, 33" (Viton or EPDM) # 491643 / 491643-E
Drum Stick, 48" (Viton or EPDM) # 491648 / 491648-E
Drum Stick, 54" (Viton or EPDM) # 491645 / 491645-E
Tote Stick, 48" (Viton or EPDM) # 491654 / 491654-E
Tote Stick, 54" (Viton or EPDM) # 491656 / 491656-E

Poly/Teflon and Kynar/Teflon Air Pumps
Pump, WR Poly/Teflon, 3/8", 7GPM
Max _____ # 710911
Pump, WR Kynar/Teflon, 3/8", 7GPM
Max _____ # 710912

Model # 931108WPS · WPS-MM Asphalt Release Sprayer



WEIGHT & DIMENSIONS

Single Package
Shipping Weight 30 lbs.
Shipping Dimensions 26" x 25" x 11"



**WARNING! READ ALL
INSTRUCTIONS BEFORE
USING EQUIPMENT**



BE1100-TL

Electric asphalt release spray system complete, 120V, 16A, 20' power cord, 30' push button cord, 40' discharge hose, 15' water & chemical hose inlet, pulls from stagnant water and chem. tanks, trigger spray gun w/48" wand, adjustable run timer and lock out timer, adjustable metering manifold for water chemical mix. "Slide Out" proof.

ASPHALT RELEASE SPRAYER

OVERVIEW

The WPS-MM Asphalt Release Sprayer is a chemical spray applicator for diluting and projecting asphalt release chemicals on to truck beds or tools to prevent asphalt from sticking. This system features a lockable, stainless steel enclosure and uses a 3/8" Warren Rupp air-operated, double-diaphragm pump to draw chemical concentrate and water from separate static tanks and blend them to create virtually any dilution ratio. The solution is then projected through the discharge hose, trigger gun, wand and fan nozzle.

Item Number: F1-WC-11AP



For proper performance do NOT modify, substitute nozzle, hose diameter or length. Manufacturer assumes no liability for the use or misuse of this unit.

Wear protective clothing, gloves and eye-wear when working with chemicals. Always direct the discharge away from people and electrical devices.

Follow the chemical manufacturer's safe handling instructions.

DO NOT use d-Limonene or other chemicals that are not compatible with the Santoprene diaphragms.

TO INSTALL (REFER TO DIAGRAM)

1. Mount the unit above chemical and / or water containers.
2. Securely attach the suction tubes to the check valves as shown in the drawing.
3. Place one tube/strainer in the chemical concentrate(s) and the other in a static container of water. (DO NOT use pressurized water!)
4. Attach a compressed airline to the inlet ball valve. DO NOT TURN ON

How to Set Your Dilution Ratio:

The adjustment knobs allow you to achieve wide range of dilution ratios.

Turn adjustment knobs counterclockwise to increase flow or clockwise to decrease flow.

For a starting place turn the water knob completely clockwise (closed) then turn 2 turns counterclockwise (open). Then turn the chemical knob completely clockwise (closed) then counterclockwise (open) in 1/4 to 1/2 turn increments until required dilution ratios are achieved. If ratios can't be achieved with the chemical knob all the way counterclockwise start turning water knob clockwise to shift more draw to the chemical side.

TO OPERATE

Always make sure the discharge is pointed in a safe direction before turning inlet valve on. Trigger can be released at any time during operation but should not be left unattended for long periods of time without closing inlet ball valve.

1. Open the inlet ball valve point the wand in a safe direction and pull the trigger on the gun.
2. Final chemical dilution adjustments will now have to be made. Make adjustments to the knobs based on results.
3. If the solution seems to be too weak slowly turn the chemical knob counterclockwise.
4. Continue opening till the solution is strong enough for the application.
5. Once dilution ratio is set, release the trigger gun or begin application.

ASPHALT RELEASE SPRAYER

PREVENTIVE MAINTENANCE: When the unit will be out of service for extended periods, place chemical tube(s) in water and flush the chemical out of the unit to help prevent chemical from drying out and causing build-up. Periodically check and clean chemical strainer and replace if missing.

Problem	Possible Cause / Solution	
	Startup	Maintenance
A) Air pump will not run or pump solution.	1,5	6,11,12
B) Unit will not draw chemical or water.	2,5	7, 8, 9,10,11
C) Using too much chemical	3	
D) Asphalt sticking in truck bed.	4	
E) Pump runs too fast with no output.		7,8,9,10,11

Possible Cause / Solution	
Startup	Maintenance
1. Open air ball valve fully. Adjust air regulator slowly clockwise. Optimum air pressure is at least 60 PSI 90 PSI maximum.	6. Clean or replace. 7. Water or chemical check valve stuck or clogged Clean or replace.
2. Immerse tube or replenish.	8. Chemical or water strainer clogged up 9. Vacuum leak in metering manifold or suction side of the pump Check and tighten the hose clamps connection(s). After unit has been in service the plastic fittings could have "relaxed" and may need tightened too. NOTE: This is the most common problem when the unit will not draw water or chemical!
3. Turn chemical knob slightly clockwise or water knob counterclockwise.	10. Chemical or water tube stretched out where tube slides over check valves or pin hole/cut in tube sucking air. Cut off end of tube or replace tube, add a hose clamp, do not over tighten. 11. Problem with air pump Refer to air pump instruction manual. Pump suction and discharge manifolds are loose, tighten bolts.
4. Turn chemical knob slightly counterclockwise or water knob clockwise.	12. Use of an oiler in the airline will cause pump to stall. Use only clean, dry air.
5. Straighten the hose.	

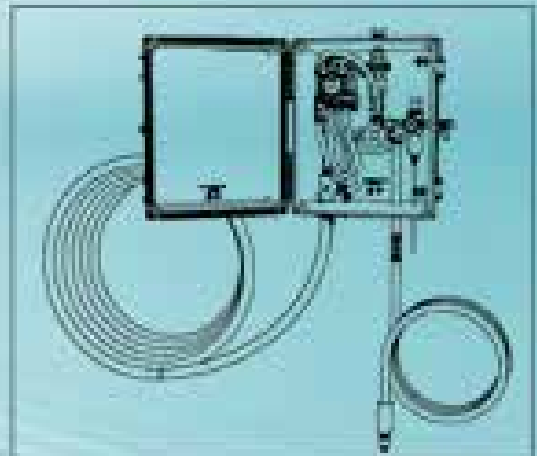
WALL MOUNTED FOAM UNIT



WALL MOUNTED FOAM UNIT



- Draws and dilutes product at ratios of 1:1 to 16:1
- Regulates incoming water pressure to ensure consistent foam quality
- Quick-change pump
- 32 inch polypropylene wand for extended foam throw All-poly fluid fittings



ASPHALT RELEASE (SLIDE OUT)

ORGANIC LUBRICANTS

Brody Chemical's Slide Out (Asphalt Release) is a product specifically developed for the asphalt industry. It is a blend of natural, completely biodegradable products that, when combined in a specially designed formula, works. It works extraordinarily well to prevent asphalt or any tar based product from sticking to metal. Slide Out contains no VOC's (volatile organic compounds).

- 100% biodegradable
- Contains no VOCs
- Non-hazardous
- Simple application process
- Heat stable
- Pour point of 35 degrees
- A barrier, not a cleaning product
- One application is sufficient for several loads
- Works extremely well with hot, high oil content or polymerized asphalt

Brody's Slide Out (Asphalt Release) makes the need to manually clean the bed of a truck a thing of the past, thus reducing man-hours and safety issues. Using Brody's Slide Out (Asphalt Release) eliminates diesel fuel usage simply because this release agent really works.

ASPHALT ROLLER RELEASE ADDITIVE

HIGHLY CONCENTRATED

This product was developed specifically for the asphalt paving industry. It is a blend of 100% active surfactants that is highly concentrated and produces an extremely slippery foam barrier that prevents asphalt from sticking to the steel wheel when added to the water in the roller/compactor tank. It is especially effective in preventing rubberized asphalt from sticking and being picked up by the roller/compactor steel wheel when asphalt is being put down.

BMF ASPHALT RELEASE AGENT

ASPHALT RELEASE AGENT

This product is specifically developed for the asphalt industry. It is a blend of natural, completely biodegradable products that when combined in a specially designed formula, works extraordinarily well to prevent asphalt or tar product from sticking to metal. This product contains no VOC'S. Use on transportation vehicles such as dump trucks, dump trailers, flow-boys, live bottom trailers, and hopper trailers. This product may be used on paving equipment such as Rubber Tire Rollers, Pavers and Material Transfer Devices such as the Roadtec (MTV-1000C, SB-1500C, SB-2500B, SB2500C), Blaw-Knox MC-330, Cedarrapids, Mat Smoothness Machines (MS-2, MS-3 and MS-4) and CR662RM roadmix machine and the CAT BG-650B Windrow Elevator spreaders.

CITRA-GEL DEGREASER

DISSOLVES DRIED ASPHALT

Water dilutable, water rinsable D-limonene based multipurpose degreaser. A blend of builders, surfactants and wetting agents with a high concentration of D-limonene. This formula provides an economical solution and quick penetrating action to dissolve and remove oily and greasy soils from ceramic, marble, Concrete, aluminum, metal and other hard surfaces. Removes carbon exhaust, rust proofing overspray, cosmoline and undercoating and dissolves asphalt on contact. Biodegradable and easy to use.

DRAG SLAT LUBRICANT

REDUCE MAINTENANCE COST

Asphalt companies have been plagued for years by rust and seizure problems with chains, gates, augers and slats. Drag Slat Lubricant lubricates and seals this equipment, preventing rust and corrosion. This product may be sprayed directly onto drag slats, conveyors, chains and all metal equipment. Drag Slat Lubricant is 100% biodegradable, safe for the environment and does an incredible job lubricating and protecting asphalt plant equipment.

FIRST CHOICE ASPHALT RELEASE

NTPEP APPROVED

Specifically developed for the asphalt industry. This product is a blend of natural, completely biodegradable products that when combined in a specially designed formula, works extraordinarily well to prevent asphalt or tar product from sticking to metal. This product contains no VOC'S. Use on transportation vehicles such as dump trucks, dump trailers, flow-boys, live bottom trailers, and hopper trailers. NTPEP approved for both truck beds & equipment.

FIRST CHOICE ASPHALT RELEASE PLUS

NTPEP APPROVED

Specifically developed for the asphalt industry. This product is a blend of natural, completely biodegradable products that when combined in a specially designed formula, works extraordinarily well to prevent asphalt or tar product from sticking to metal. This product contains no VOC'S. Use on transportation vehicles such as dump trucks, dump trailers, flow-boys, live bottom trailers, and hopper trailers. NTPEP approved for both truck beds & equipment.

OIL REMEDIATOR

DEGRADES COMPLEX HYDROCARBON CHAINS

Oil Remediator is suitable for all weights of petroleum hydrocarbons, sites contaminated with solvents and other volatile organic compounds (such as trichloroethane, benzene, toluene, ethylbenzene, xylenes and BTEX) and fuels such as diesel or gasoline. These microbes have a broad spectrum of metabolic pathways and are thereby able to degrade complex hydrocarbon chains.

ORANGE SOLVENT

POWERFUL ASPHALT REMOVER

This multipurpose concentrate instantly emulsifies grease, oils and fats without the use of harsh acids, alkalis or petroleum solvents. Ideal uses for this product include degreasing equipment, trucks, motors and metal surfaces. This product will remove most resins, adhesives, printing inks, decals, rubber tire marks, tar and asphalt and other tough soils usually requiring solvent-based degreasers.

TAR ATTACK CITRUS

NATURAL OIL FORMULATION

A new natural oil formulation that keeps pace with today's safety and environmental regulations. Powerful degreasers and cleaners, coupled with natural oils and citrus extracts are specially blended to out perform the conventional hazardous solvent degreasers. This multi-purpose concentrate instantly emulsifies grease, oils and fats without the use of harsh acids, alkalines or petroleum solvents. The vapors from this product are not considered harmful. This allows for a wide variety of uses indoors as well as out. This is a great alternative to costly orange solvent products.

TAR ATTACK PINE

NATURAL OIL FORMULATION

A new natural oil formulation that keeps pace with today's safety and environmental regulations. Powerful degreasers and cleaners, coupled with natural oils and pine extracts are specially blended to out perform the conventional hazardous solvent degreasers. This multi-purpose concentrate instantly emulsifies grease, oils and fats without the use of harsh acids, alkalines or petroleum solvents. The vapors from this product are not considered harmful. This allows for a wide variety of uses indoors as well as out. This is a great alternative to costly orange solvent products.

TAR BARRIER

ANTI STICKING AGENT

Tar Barrier prevents applied asphalt crack sealers from sticking to passing vehicles and foot traffic. This product also works as an excellent release agent that keeps tar and asphalt from sticking to the beds of trucks.

Please contact your Brody Chemical representative for a demonstration.



SLIDE OUT (ASPHALT RELEASE) DEMONSTRATION

INFORMATION:

Truck #: _____

Company Name: _____

Driver Name: _____

Today's Date: _____

RESULTS/CONDITION OF TRUCK:

Load #1: _____

Load #2: _____

Load #3: _____

Load #4: _____

Today your truck will be sprayed with Brody Chemical's Slide Out (Asphalt Release), the only true 100% biodegradable, all-natural, release agent. Slide Out is a unique blend of all-natural oils that bond to the metal surfaces and creates a barrier between the asphalt and the truck bed. Because Slide Out is 100% natural, there is no negative impact to the asphalt, the paint on trucks, the environment, or to the drivers...and it really works! Warm, soapy water will remove product from any surface.

After using Slide Out (Asphalt Release), please let us know how you feel the product works by answering these few questions:

- How well did Slide Out (Asphalt Release) work to keep your truck clean?
 Excellent Good Average
- Is Slide Out (Asphalt Release) the best product that you have used?
 Yes No If 'NO' what was: _____
- Would you use Slide Out (Asphalt Release) if it were available?
 Yes No
- Are you an independent or an employee of the plant?
 Independent Employee

*On behalf of your demonstration team at
Brody Chemical, we want to thank you for the opportunity to perform this
demonstration for you today.*



SLIDE OUT (ASPHALT RELEASE) DEMONSTRATION SURVEY FORM

Company Name: _____ Date: _____

We will be performing a demonstration of Brody Chemical's Slide Out (Asphalt Release) at your location today. Slide Out (Asphalt Release) is an all-natural, 100% biodegradable, non-hazardous release agent. We are extremely confident in Slide Out (Asphalt Release) because we have not only seen it prove itself, but it is also more effective than any other release agent currently on the market.

We greatly appreciate the opportunity to provide this demonstration for you and would like to request that you complete this quick survey to let us know what you think about our product. Please answer honestly, as we use these surveys in evaluating not only the product, but the demonstration process as well.

- What is the most important feature that you look for in a release agent? (check all that apply)
 - Price Keeps truck beds clean Environmental
 - Personal Safety Number of applications required Other
- How would you rate the effectiveness of Slide Out (Asphalt Release)?
 - Excellent Good Average Poor
- Would you consider Slide Out (Asphalt Release) to be more effective than other release agents you have used?
 - Yes No
- How many loads per application did you get? _____
- What type of mix did you haul? _____
- What release agent do you currently use? _____
- How often does the release agent you currently use need to be applied? Every _____ load(s).
- How much of your current release agent is applied per load? (check appropriate amount)
 - No. Approximate gallons: ½ 1 1½ 2 2+
- How would you rate the effectiveness of your current release agent?
 - Excellent Good Fair Poor

Name: _____ Phone: _____ Truck No.: _____

Comments: _____

Please fax completed form to: 801.963.2437 or 800.588.2436



ABOUT BRODY CHEMICAL

Brody Chemical sells and provides service to over 50,000 customers in a variety of industries including manufacturing, industrial, mining, automotive, institutional, hospitality, trucking, food and beverage, agricultural, and medical. Brody Chemical's sales representatives are trained to offer technical assistance and recommendations in selecting solutions and cleaning processes that best meet the needs of clients.

BRODY
CHEMICAL

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