GSP

GLOBAL SPECIALTY PRODUCTS USA INC

2024 PROPER USE & PROCEDURE GUIDE

FLUSHING ISO (A), MAINTENANCE & STORAGE OF SPRAY FOAM & PROTECTIVE COATING RIGS

Our Mission and Vision:

" Be the industry pioneer when it comes to offering highly effective, value-driven, sustainably innovated, environmentally safe, non-toxic products that consistently deliver to the industries we serve. "

Flushing ISO (A), Maintenance & Storage of Spray Foam & Protective Coating Rigs

- Proudly manufactured in the USA, Global Specialty Products is your one-stop shop for non-toxic cleaners and lubricants that replace highly hazardous and toxic chemicals.

- Flushing, Immersion Cleaning, and Maintenance products for spray foam and coating machinery equipment including spray guns, feed lines, hoses, mixing and metering equipment. Flushing Iso (A), Polyol (B), Polyurethane Foam (Reacted A & B), Polyurea Coatings, and more.

- Specialty Plasticizers for “Winterizing” and long-term storage of spray foam and coating equipment, hoses, and spray guns.

- Specialty Bio-based Silicone and Petroleum free Lubricants containing corrosion inhibitors to fully protect and extend the pump displacement rod and packings, preventing coatings from drying on equipment, which may cause damage.

PRODUCT FOCUS

NZD ISO FLUSH™
Isocyanates Cleaner
& Neutralizer

SURF X™ FLUSH 2000
Polyurethane Foam,
Resin & Coatings
Remover

CIRR D BOND™
Crystallized ISO (A)
& Resin Remover

SURF X™ PRO
2000 Gun Flush

SurfaLube™
Equipment
Storage Fluid

SurfaSeal™
Bio-based
Lubricant

FOAM OFF | MP™
Flexible & Rigid
Polyurethane Foam
Remover

FRP ULTRA™
Resin
Remover

PRODUCT PACKAGING

***ALL GSP PRODUCTS HAVE A THREE YEAR SHELF LIFE**

275 Gallon HDPE Tote with Steel Cage

55 Gallon Steel Drum

5 Gallon HDPE Pail

1 Gallon EasyPour Jug

Quarts for
SurfaSeal™ Bio-based Lubricant & Surf X™ Pro 2000 Gun Flush

Go Green Wipes™ (Saturated Assorted Products)

WORKER SAFETY STATEMENT:

IF YOU USE **TOXIC** CHEMICALS TO TRADITIONALLY CLEAN, YOU ARE COMPROMISING YOUR HEALTH.

OUR PRODUCTS DO NOT HAVE ANY OF THE NEGATIVE SIDE EFFECTS **TOXIC** CHEMICALS HAVE.

IMPROVE WORKER HEALTH & SAFETY CONDITIONS BY MAKING THE SWITCH TO GSP PRODUCTS.

Environmental Compliance:

OUR PRODUCTS REPLACE ACETONE, MEK, METHYLENE CHLORIDE, NMP, NMP BASED PRODUCTS & HYDRAULIC FLUIDS.

Environmental Compliance:

- REDUCED VOC
- LOW EVAPORATION RATE
- NON-HAPS
- NON-HAZARDOUS
- NON-CORROSIVE
- NON-CARCINOGENIC
- NON-MUTAGENIC
- NON-TERATOGENIC

Formulated Without Toxic Chemicals:

- LISTED AND KNOWN TO THE STATE OF CALIFORNIA (PROP 65) TO CAUSE CANCER, BIRTH DEFECTS, OR OTHER REPRODUCTIVE HARM
- LISTED ON SARA TITLE 313
- LISTED ON SECTION 112 (B) OF HAZARDOUS AIR POLLUTANTS (HAPS)
- LISTED ON THE EUROPEAN CHEMICALS AGENCY (ECHA) UNDER "REACH"
- NO OZONE-DEPLETING CHEMICALS

KNOW OUR PRODUCTS

FOR USE ON ALL SPRAY FOAM & COATING EQUIPMENT

CLEAN →

NZD ISO FLUSH™
SURF X™ FLUSH 2000
CIRR D BOND™

MAINTAIN →

SURF X™ PRO 2000 Gun Flush
SurfaLube™ Storage Fluid
SurfaSeal™ Bio-based Lubricant
GO GREEN™ Pre-Saturated Wipes

NZD ISO FLUSH™

ISOCYANATES CLEANER & NEUTRALIZER

- THE ONLY LIGHT DENSITY, NON-WATER MISCIBLE CHEMISTRY AVAILABLE IN THE MARKET THAT IS DUAL ACTION & NON-GELLING
- FLUSHING OF LIQUID & SLIGHT BUILDUP OF HARDENED ISO (A) PRESENT IN SPRAY FOAM AND COATING EQUIPMENT, INCLUDING TRANSFER PUMPS, SPRAY GUNS, FEED LINES, HOSES, MIXING & METERING EQUIPMENT
- FLUSHING POLYOL (B) & ALL OTHER URETHANE INTERMEDIATES
- USE FULL STRENGTH AT ROOM TEMPERATURE FOR UP TO 4 HOURS
- IN THE EVENT THERE IS A SIGNIFICANT BUILDUP OF HARDENED ISO (A), WE RECOMMEND FLUSHING THE ENTIRE SYSTEM WITH SURF X™ FLUSH 2000 FIRST, FOLLOWED BY ONE FLUSH OF NZD ISO FLUSH™

METHODOLOGY :
HOW TO KEEP MOISTURE & WATER MOLECULES AWAY FROM YOUR ISO (A)

*The use of appropriate eye and respiratory protection is highly recommended.

- Moisture/water molecules are very small and tend to penetrate through tiny pores on the exterior side of the hoses.
- Once the water penetrates through, it will reach the free ISO (A) inside the hose and cause a reaction, causing gel and crystals to form throughout the system.
- The reaction is a two-step process: First, water reacts with some of the free ISO (A) groups producing an amine and releasing carbon dioxide as a by-product. Second, the amine further reacts with the remaining ISO (A) groups forming Urea linkages and fully cured Polyurethane Urea.
- Recommendation: 1 x week, through the transfer pump A-side, take the gun, open the manual valve, and spray 1-2 gallons of the A-side inside a waste bucket and discard. This will replace the old and partially reacted ISO with fresh ISO.
- Spray Foam every week, 50-100 board feet of Closed Cell, or 200-300 board feet of Open Cell. This process should be enough to get all the old ISO (A) out of the system.
- Flush the entire system with NZD ISO FLUSH™ Isocyanates Cleaner & Neutralizer when NOT in use.

TIPS:
BEFORE FLUSHING WITH
NZD ISO FLUSH™ ISOCYANATES CLEANER & NEUTRALIZER

*The use of appropriate eye and respiratory protection is highly recommended.

- If you catch the formation of ISO (A) Crystals early inside the transfer pumps, hoses, and guns, you can flush the system and continue spraying. If you wait too long, be prepared that the crystals of ISO (A) will multiply and expand, resulting in total blockage, which will be very expensive to repair or replace and very time-consuming.
- Flush equipment only in a well-ventilated area.
- Do not use water. NZD ISO FLUSH™ is a moisture-free flushing agent. Flush ISO (A) lines with full strength NZD ISO FLUSH™ at room temperature only. Heat will attract moisture into your ISO (A) system, creating issues such as hardening of ISO (A).
- Always flush ISO (A) line with virgin NZD ISO FLUSH™. DO NOT REUSE THE SPENT MATERIAL TO FLUSH EQUIPMENT AGAIN.
- Use the lowest possible pressure (200 PSI or less) when flushing & recirculating NZD ISO FLUSH™.
- NZD ISO FLUSH™ has a neutral pH. It is non-corrosive on all ferrous and non-ferrous metals and compatible with most rigid O-Rings, Gaskets, and Linings (Nylon, Teflon, PE, PP, Karlez).
- **Do not leave NZD ISO FLUSH™ inside the system overnight or over the weekend.**

STEP-BY-STEP PROCEDURE:
HOW TO FLUSH WITH
NZD ISO FLUSH™ ISOCYANATES CLEANER & NEUTRALIZER

*The use of appropriate eye and respiratory protection is highly recommended.

1. Turn off power to the machine.
2. Remove the transfer pump from the drum and wipe down any excess ISO (A) or Resin.
3. Place the transfer pump in a 5-gallon bucket.
4. Pour 4-gallons of NZD ISO FLUSH™ in the bucket with the transfer pump.
5. Connect an air line with 100 PSI to the transfer pump.
6. Remove the spray gun from the end of the spray hose.
7. Open the manual valve on the correct side over a waste bucket and pump 3-4 gallons in.
8. Close the manual valve and pour another 3-gallons of NZD ISO FLUSH™ into the bucket with the transfer pump.
9. Hold the end of the spray hose over the bucket with the transfer pump in it and open the manual valve.
10. Allow the solvent to recirculate for 2-4 hours maximum.
11. Close the manual valve.
12. If your rig has recirculation lines, disconnect the line from the drum or transfer pump and hold over waste bucket.

STEP-BY-STEP PROCEDURE CONTINUED:
HOW TO FLUSH WITH
NZD ISO FLUSH™ ISOCYANATES CLEANER & NEUTRALIZER

*The use of appropriate eye and respiratory protection is highly recommended.

13. Open the recirculation valve and allow 1/2 gallon out.
14. Close the recirculation valve.
15. Move the transfer pump to a new bucket with 3-4 gallons of SurfaLube™ Equipment Storage Fluid.
16. Hold the end of the hose over a waste bucket and pump at least 3 gallons into the waste bucket.
17. Hold the recirculation line over the waste bucket.
18. Open the recirculation valve and allow 1/2 gallon out.
19. Close the recirculation valve.
20. Reconnect the recirculation line to the drum or transfer pump. The system should now be full of SurfaLube™ Equipment Storage Fluid.
21. This procedure should be completed in 2-4 hours maximum. Do not allow NZD ISO FLUSH™ to stay in the system overnight. Never reuse spent materials.

SURF X™ FLUSH 2000

POLYURETHANE FOAM, RESIN & COATING REMOVER

- FLUSHING & LOW-PRESSURE SPRAY FOR INCREASED AMOUNTS OF HARDENED ISO (A) & REMOVING OVERSPRAY FROM UNPAINTED SURFACES (METAL, CEMENT, MASONRY, ETC.)
- FLUSHING POLYOL (B) & ALL OTHER URETHANE INTERMEDIATES
- IMMERSION CLEANING FOR RESIN & POLYMERS MAX OF 140 °F
- REMOVING POLYUREA COATINGS & OTHER INDUSTRIAL COATINGS
- REMOVING INDUSTRIAL RESINS SUCH AS EPOXY, POLYESTER VINYLESTER & FIBERGLASS
- REMOVING ADHESIVES SUCH AS HOT MELT & SILICONE

STEP-BY-STEP PROCEDURE:
FLUSHING, LOW-PRESSURE SPRAY & IMMERSION CLEANING WITH SURF X™ FLUSH 2000
POLYURETHANE FOAM, RESIN & COATING REMOVER

*The use of appropriate eye and respiratory protection is highly recommended.

If you have increased amounts of hardened ISO (A) throughout your Equipment, including Transfer Pumps, Spray Guns, Feed Lines, Hoses, or Mixing & Metering Equipment, you may also have a small amount of moisture reacted with your ISO (A). In this case, we recommend the following:

1. Flush the system with 2-3 gallons of SURF X™ FLUSH 2000 at room temperature.
2. Using a Transfer Pump, recirculate for 2-4 hours until all the hardened ISO (A) crystals are completely flushed. You may notice a thick yellow liquid draining out.
3. Drain the system into a 5-gallon pail completely.
4. Final Rinse/Flush use 2-3 gallons of NZD ISO FLUSH™ at room temperature until you see clear liquid coming out.
   NOTE: SURF X™ FLUSH 2000 and NZD ISO FLUSH™ can not be stored in your Spray Foam Equipment overnight or for a period of time longer than 4 hours.
5. Drain NZD ISO FLUSH™ into a 5-gallon pail completely. Purge the system with a few quarts of ISO (A), and you are now ready to spray.
6. To properly prepare your equipment for storage, use SurfaLube™ Equipment Storage Fluid.

SURF X™ FLUSH 2000 VS. NZD ISO FLUSH™

	NZD ISO FLUSH™	SURF X™ FLUSH 2000
DENSITY & STRENGTH	LIGHT DENSITY – FLUSHES EASILY	MEDIUM DENSITY
WHAT TO USE IT FOR	FLUSHING OF LIQUID & SLIGHT BUILDUP OF HARDENED ISO (A) & POLYOL (B)	FLUSHING & IMMERSION CLEANING FOR INCREASED AMOUNTS OF HARDENED ISO (A)
RECOMMENDED USAGE	USE MONTHLY OR AS OFTEN AS NEEDED TO NEUTRALIZE & CLEAN	USE MONTHLY OR AS OFTEN AS NEEDED TO CLEAN

TIPS:

- AFTER SPRAY FOAM EQUIPMENT IS FLUSHED COMPLETLEY, IT IS RECOMMENDED TO FLUSH ISO (A) LINE WITH FRESH NZD ISO FLUSH™ TO ENSURE COMPLETE REMOVAL.
- DO NOT LEAVE PRODUCT OVERNIGHT OR LONGER THAN 4 HOURS.
- THE USE OF APPROPRIATE EYE AND RESPIRATORY PROTECTION IS HIGHLY RECOMMENDED.

CIRR D BOND™

CRYSTALIZED ISO (A) & RESIN REMOVER
NOT SUITABLE FOR FLUSHING HOSES

- IMMERSION CLEANING, LOW-PRESSURE SPRAY & HAND WIPE APPLICATION FOR BUILD UP OF HARDENED ISO (A) & INDUSTRIAL RESINS AT A MAX OF 140 °F

- REMOVES UNCURED & RECENTLY CURED DEPOSITS & BUILD-UP ON SPRAY FOAM EQUIPMENT INCLUDING PUMP PACKAGING, HEAT EXCHANGERS, SPRAY GUNS, CUTTING DEVICES, MOLDS, ROLLERS, TOOLS, MIXING AND METERING EQUIPMENT, MIXING HEADS, TROUGHS, CONVEYOR PARTS, SIDEWALLS, AND FLOORS

- DISSOLVES TWO COMPONENTS PU, BOTH AQUEOUS & SOLVENT-CONTAINING PAINTS, LACQUERS, VARNISHES, LATEX, RUBBER & RESINS, AS WELL AS ADHESIVES SUCH AS DRIED CYANOACRYLATE, SILICONES & BI-COMPONENT POLYURETHANES

- REMOVES OVER SPRAY POLYURETHANE FOAM (REACTED PART A & B)

- COATINGS SUCH AS POLYUREA & OTHER INDUSTRIAL COATINGS

- INDUSTRIAL RESINS SUCH AS EPOXY, POLYESTER VINYLESTER, & FIBERGLASS

- SAFE ON ALL FERROUS & NON-FERROUS METALS

SURF X™ PRO 2000
GUN FLUSH

- SUITABLE FOR DAILY USE IN SPRAY GUNS USED FOR SPRAYING FOAM, RESIN, PAINT & COATINGS

- REMOVES BUILD-UP OF FOAM, LIQUID & HARDENED ISOCYANATES, POLYOL COATINGS (POLYUREA), SILICON, RESINS & ADHESIVES FROM YOUR GUN

- KEEP YOUR GUN TIP & MIX CHAMBER CLEAN AND CLEAR TO HELP ENSURE A SMOOTH & EVEN SPRAY THROUGHOUT THE DAY

PROPER PROCEDURE:
HOW TO USE SURF X™ PRO 2000 GUN FLUSH TO KEEP YOUR GUN CHAMBER CLEAN

*The use of appropriate eye and respiratory protection is highly recommended.

1. Turn off both A and B lines.
2. Insert the canister filled with SURF X™ PRO 2000 Gun Flush into the
3. gun.
4. Pull the trigger several times to prime SURF X™ PRO 2000 Gun Flush into the pump.
6. Spray onto cardboard to see SURF X™ PRO 2000 Gun Flush released into the gun mix chamber and ensure build-up is dissolved.
8. Turn on both A and B lines and squeeze the trigger until you see SURF X™ PRO 2000 Gun Flush spraying out of the gun.
9. You are now ready to continue spraying.

When you notice an uneven spray pattern or need to clean your gun, use this method to maintain a clean chamber for future use.

SurfaLube™
Equipment Storage Fluid

MAINTAIN OR WINTERIZE SPRAY RIG, GUNS, HOSES & LINES

- A COMPANION PRODUCT TO NZD ISO FLUSH™ & SURF X™ FLUSH 2000 - USE AS A LAST STEP WHEN STORING FOR LONG PERIODS OF TIME
- THE ONLY VOC EXEMPT, NON-FLAMMABLE & NON-CORROSIVE ALL-PURPOSE STORAGE FLUID AVAILABLE FOR SPRAY FOAM & COATINGS EQUIPMENT, FOR MID TO LONG-TERM STORAGE UP TO 36 MONTHS
- OFFERS A LOW FREEZING POINT, LOW WATER SOLUBILITY, & EXCELLENT STORAGE STABILITY
- LOW-HUMIDITY-ABSORBING: MINIMAL MOISTURE RETENTION
- STABLE: DOES NOT GEL OR FREEZE IN AN EXTREMELY COLD ENVIRONMENT (FREEZING POINT: -50°F)
- ACTS AS A PLASTICIZER, PREVENTING ISO (A) FROM FORMING CRYSTALS
- COMPATIBLE WITH MACHINES, TRANSFER PUMPS, HOSES, PROPORTIONERS & GUNS MADE OF CARBON STEEL OR STAINLESS STEEL & ALUMINUM ALLOYS

TIPS:
PREPARING YOUR SPRAY RIG, GUNS, HOSES & LINES FOR STORAGE USING SurfaLube™ Equipment Storage Fluid

*The use of appropriate eye and respiratory protection is highly recommended.

- SurfaLube™ will help eliminate the formation of crystallized ISO (A) that may form when any remaining residue reacts with moisture in the air.
- Once your ISO (A) line is completely flushed with NZD ISO FLUSH™ or SURF X™ FLUSH 2000, SurfaLube™ can be introduced to the equipment through hoses & spray lines.
- Only store in a cool, dry & moisture free place until you are ready to reuse.

PROPER PROCEDURE:
HOW TO REUSE SPRAY RIGS, GUNS, HOSES & LINES AFTER USING SurfaLube™ Equipment Storage Fluid

*The use of appropriate eye and respiratory protection is highly recommended.

1. Pump SurfaLube ™ into the system so it remains in hoses & lines.
2. When ready to reuse, flush out SurfaLube ™ completely & purge your ISO (A) line with a couple quarts of ISO (A).
3. Discard the first few pounds of foam to avoid adhesive failure.

SurfaSeal™
Bio-based Lubricant

- SPECIALTY BIO-BASED SILICONE & PETROLEUM FREE LUBRICANTS CONTAINING CORROSION INHIBITORS TO FULLY PROTECT & EXTEND THE PUMP DISPLACEMENT ROD & PACKINGS, PREVENTING COATINGS FROM DRYING ON EQUIPMENT, WHICH MAY CAUSE DAMAGE

- REDUCES FRICTION, WEARS & ABRASIONS ON THE COMPONENTS BY FORMING A HIGH LEVEL OF LUBRICATION ON THE DISPLACEMENT ROD

- PREVENTS FLASH RUSTING & HELPS TO EXTEND THE LIFE OF THE EQUIPMENT

- VOC EXEMPT, NON-FLAMABLE & NON-CORROSIVE

- IDEAL REPLACEMENT FOR PETROLEUM (AROMATIC AND ALIPHATIC) BASED LUBRICANTS & PRODUCTS CONTAINING PHTHALIC ACID ESTERS / DPHP (DI-(2-PROPYL HEPTYL), PHTHALATE, TRICRESYL PHOSPHATE, TRIXYLENYL PHOSPHATE

PROPER PROCEDURE:
HOW TO PREVENT PREMATURE PACKING WEAR BY USING SurfaSeal™ Bio-based Lubricant

*The use of appropriate eye and respiratory protection is highly recommended.

1. Fill the Pump Wet Cup halfway with SurfaSeal™ Bio-based Lubricant. This will form a high level of lubrication on the Displacement Rod, preventing flash rusting and extending the life of the equipment.
2. Maintain the Pump Wet Cup halfway full of SurfaSeal™ Bio-based Lubricant at all times to ensure optimal results.

GO GREEN™
Pre-Saturated Wipes

- 90 PRE-MOISTENED 12" X 12" POLYPROPYLENE WIPES WITH THE POWER OF GSP USA'S SOLVENTS
- QUICK, EASY, SAFE & EFFECTIVE WAY TO REMOVE SINGLE COMPONENT ISO (PART A & B) RIGID & MOLDED POLYURETHANE FOAM
- MDI & TDI ESTERS & ETHERS, CURED REACTIVE HOT MELT, POLYURETHANE ADHESIVES & OTHER INDUSTRIAL SOILS
- MIXTURES OF FIBERGLASS & POLYESTER RESIN, VINYLESTER & EPOXY RESINS
- WIPE OFF HOSES, BUILDUP OF MIXING HEADS, GEAR PUMPS, TROUGHS, SIDE WALLS, CONVEYOR PARTS, ROLLERS, MOLDS, FOAM CURING DEVICES, HOLDING TANKS, FEEDING LINES & MIXING EQUIPMENT
- PERFECT FOR USE IN SMALLER & CONFINED SPACE WORK AREAS

PROPER PROCEDURE:
DAILY SURFACE CLEANING APPLICATION USING GO GREEN™ Pre-Saturated Wipes

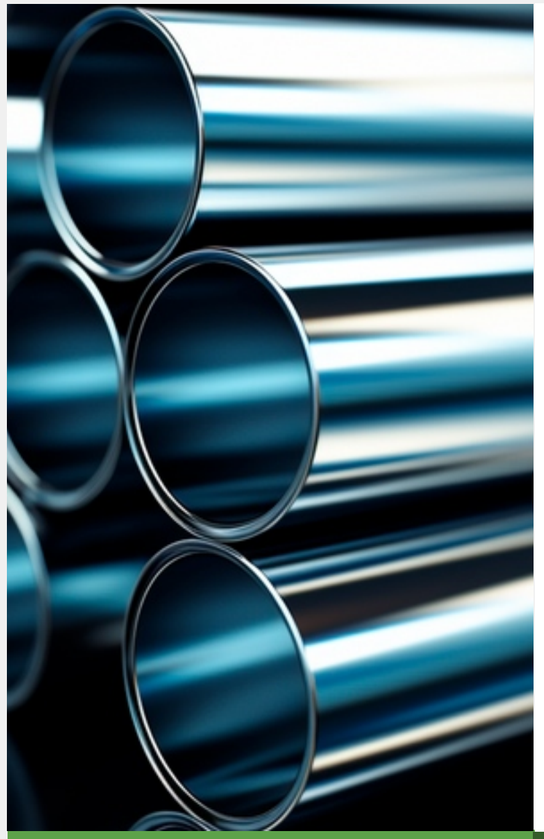
*The use of appropriate eye and respiratory protection is highly recommended.

1. Pull out one pre-moistened wipe from the bucket and close dispenser with attached cover securely.
2. Apply wipe on surface using circular motions to cover the area with solvent.
3. If needed, leave wipe on overnight or until surface is cleaned.
4. Discard the wipe in accordance with all local, regional, national, provincial, territorial and international regulations. Waste characterizations and compliance with applicable laws are solely the responsibility of the waste generator.

Please use caution when applying wipes on painted surfaces.
Paint or varnish may be removed.

CORROSION IS CLASSIFIED AS PITTING, FLASH RUSTING & DARKENING

TOP 2 REASONS WHY THIS HAPPENS TO YOUR GUN:



MATERIALS OF CONSTRUCTION

Not all metals are created equal. High-quality stainless steel ensures little to no corrosion.

pH LEVEL OF CLEANERS USED

All GSP Products are non-corrosive, with a mild pH, compared to highly acidic & alkaline competitors.

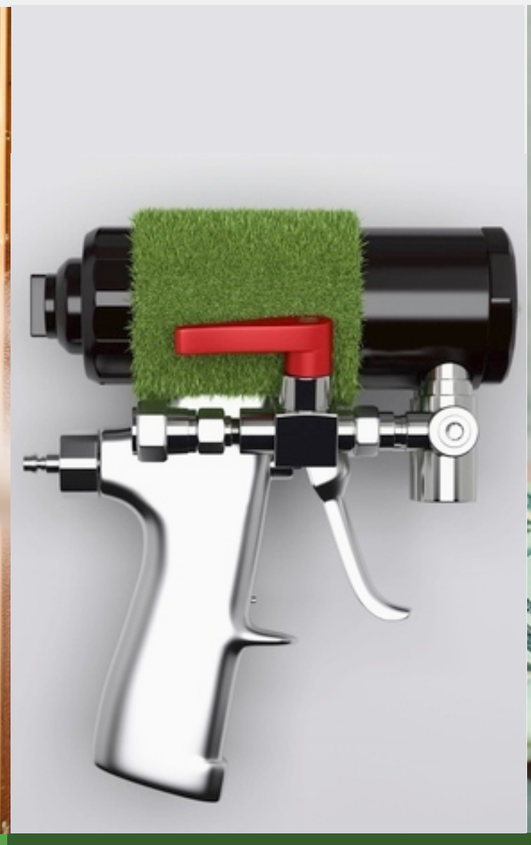
TOP 4 REASONS WHY YOU SHOULD REGULARLY CLEAN YOUR SPRAY & COATING EQUIPMENT:

PREVENT

Gel & crystals from forming in the system due to moisture penetration.

MAINTAIN

An even spray every time & ensure optimal equipment performance.



EXTEND

Equipment life span & avoid costly repairs or replacement parts.

SAVE

Time & money.

TOP 4 REASONS TO USE GSP USA'S PRODUCTS:

SIGNIFICANT COST SAVINGS

Our products cost less than toxic chemicals & are highly effective.

EXTEND LIFE OF EQUIPMENT

Prevents wear & tear, expensive replacements & supports a smoother operation.

EASE OF USE

Products & procedure are simple & easy to understand, with excellent customer support.

BETTER STORAGE

Less space needed to hold inventory.
Less insurance premiums vs operating with toxic chemicals.

WE'RE THANKFUL FOR YOUR SUPPORT

From our family to yours.