

# J.Racenstein®

**2015**  
Product Update

- » **Roofs**
- » **Siding**
- » **Windows**
- » **Wood Decks**
- » **Rain Gutters**
- » **Solar Panels**

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# Water-Fed Poles

## Gardiner Water-Fed Poles

The Gardiner line of poles are nicely improved. Special features include quick-loq brush and adapters for easy accessory changes. Thicker clamps that are grooved at each end to prevent finger pinching while collapsing pole. Levers now have an aluminum pivot nut.

### CLX Hybrids

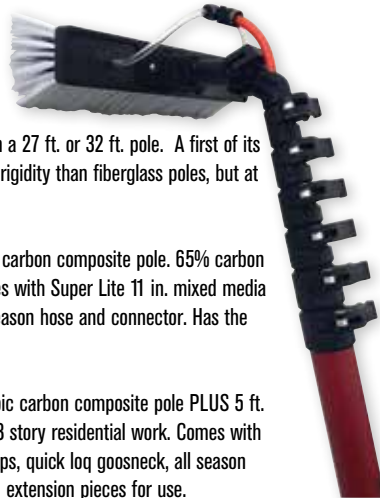
The perfect blend of pole structure and price in a 27 ft. or 32 ft. pole. A first of its kind carbon composite pole that offers greater rigidity than fiberglass poles, but at an economical price.

CLX Hybrid 27 ft. pole is a 6 section telescopic carbon composite pole. 65% carbon fiber. Ideal for 2-3 story residential work. Comes with Super Lite 11 in. mixed media brush, smart clamps, quick loq goosneck, all season hose and connector. Has the option to add extension piece.

CLX 32 ft. is a 27 ft. Hybrid, 6-section, telescopic carbon composite pole PLUS 5 ft. extension piece. 65% carbon fiber. Ideal for 2-3 story residential work. Comes with Super Lite 11in mixed media brush, smart clamps, quick loq goosneck, all season hose & connector. Recommend no more than 2 extension pieces for use.

Length	# Sects.	Collapsed	Wt.	Part #	Price
CLX 27 ft.	6	5'1"	3.96 lbs.	155-4272	\$450.00
CLX 32 ft.	7	5'4"	4.62 lbs.	155-4322	\$550.00

Grooved Clamps



Quick-Loq  
Brush & Adaptor

### SLX Carbon Fibers

Come with an 11 in. Dual Trim Medium Mixed Nylon Bristle Brush and Goosneck. Brush features the new square Quick-Loq socket for easy removal of brush from pole.

SLX 39 ft. Carbon Fiber pole is the best pole for regular work to 40 ft. with the ability to expand to 60 ft. by adding a handle and extensions. It's an 8-section telescopic carbon fiber pole made of 100% Carbon Fiber. Ideal for small commercial and most residential jobs. It comes with Super Lite 11 in. mixed media brush, smart clamps, quick loq goosneck, all season hose and connector. Base handle section has outer insulated layer for safety. It has the option to add extension pieces.

SuperMax 50 ft. HM Carbon Fiber is a durable pole that is the workhorse of the industry, cleaning to 50 ft. regularly. With extensions, it can perform well to 70 ft. It's a 9-section telescopic hi-modulus carbon pole. Ideal for commercial work. It comes with Super Lite 11 in. mixed media brush, smart clamps, quick loq goosneck, all season hose and connector.

Xtreme 47 ft. HM Carbon Fiber pole is a 9-section hi-modulus telescopic pole. When your work is 35 to 50 ft. and above everyday, this is the pole for For the window cleaning professional. Easy-to-use even when extended beyond it 47ft to heights of 80+ feet. The Xtreme pole offer efficient cleaning and is a joy to use. It has 3 clamping points on each section. It comes with Super Lite 11in mixed media brush, smart clamps, quick loq goosneck, all season hose and connector. Base handle section has outer insulated layer for safety. Has the option to add extension pieces.

Length	# Sects.	Collapsed	Wt.	Part #	Price
SLX 39 ft.	8	5'7"	5.29 lbs.	155-4391	\$925.00
SLX 50 ft.	9	6'3"	7.16 lbs.	155-4505	\$1,475.00
47 ft. SLXtreme	9	6'3"	5.18 lbs.	155-547	\$1,885.00
#9 Handle*				155-4719	\$145.00
#10 Carbon Extension*				155-4720	\$165.00

\*Add to 39 ft. SLX or 50 ft. SLX for 5 ft. more extension. Add #10 to go higher. Use multiple extensions with Xtreme to reach 83ft+.

## Super-Lite Brushes

### Lightweight Radius Dual-Trim Medium Bristle Sill Brush

- Designed Exclusively for WFP Window Cleaning
- For users who want the lightest WFP Radius-Sill brush while still achieving excellent cleaning results.
- Suitable for use with water temperatures up to 50°C
- Only weighs 8 oz.

158-401 \$50.90



### Lightweight Radius Dual-Trim Stiff Bristle Sill Brush

- Designed Exclusively for WFP Window Cleaning
- For users who want the lightest WFP Radius-Sill brush whilst still achieving excellent cleaning results.
- Suitable for use with water temperatures up to 80°C
- Only weighs 8 oz.

158-402 \$62.85



### Wide Mono-Filament, Dual-Trim, Micro-Variation Bristle Brush with Medium/Soft Bristle Stiffness

- Suitable for use with water temperatures up to 50°C
- Only weighs 13 oz.

158-404 \$79.75



### Semi-Flocked, Dual-Trim, Micro-Variation Bristle Brush with Medium/Soft Bristle Stiffness

- Suitable for use with water temperatures up to 50°C
- Only weighs 13 oz.

158-405 \$79.75

Upgrade your 17 in. Super-Lite Brush to 4 Jets.

158-406 \$20.00



## H2Pro Truck Mount+Chem Delivery

This H2Pro system offers 40 inches of RO Membrane

- 12v RO Boost Pump with fill detection to stop running the pump
- Carbon Filter, Two 20 in. RO Membranes, DI Resin Filter with replaceable/refillable media cartridges
- 50-gallon RO buffer tank to support the operator cleaning the glass
- 12v Delivery Pump and controller for cleaning the glass, Battery Box (battery not included)
- Hose Reel with 200 ft. of 3/8 in. hose, On-board TDS Meter
- Remote Key Fob that controls the water flow for Wash (low) and Rinse (high) water flow and on/off

Don't be dependent on the local water pressure. Always get exactly the water you need at the brush with the H2Pro Tank pure water filter and delivery system.

### Add a Chem Delivery System

Many windows need a shot of detergent to clean faster. Available as an add-on to the H2Pro or stand-alone for your pure water system.

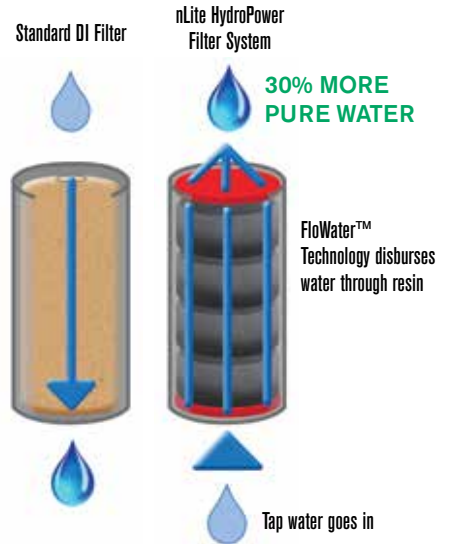
H2Pro Truck Mount	150-0372	\$4,880.00
Chem Delivery w/Remote	150-0390	\$995.00
H2Pro Truck Mount w/Chem Delivery	150-0380	\$5,885.00



## Unger HydroPower

Pure Water users told Unger that you needed a system that helped save time and money. From the FloWater™ Technology that provides you with up to 30% more Pure Water to the QuickChange™ Resin Bags which make replacing resin in less than 30 seconds, the unique features of the system will reveal the time and cost benefits immediately. The FastLock™ opening lever allows for one-step pressure release and easy opening. Combined with the family of patented nLite waterfed poles and brushes, nLite HydroPower will take your business to new heights!

System 1	69-205	\$353.00
System 2	69-206	\$589.00
System 4	69-207	\$867.00
System 2 w/cart	69-208	\$739.00
System 4 w/cart	69-209	\$1,017.00
Wheels (4)	69-215	\$61.00
Stainless Cart	69-220	\$225.00



### FastLock™ Opening

Lever allows for one step pressure release and easy opening.



### FloWater™ Technology

Unique design optimizes the flow of water through resin bags, resulting in up to 30% more pure water output than other systems.



### QuickChange™ Resin Bags

Change resin on the job in less than 30 seconds. Pre-sealed resin bag contains the perfect amount of resin for optimal performance every time.



Quality Tools for Smart Cleaning™

# Solar Panel Cleaning

Solar panels can be cleaned in multiple ways

- A) Traditional window cleaning tools - smaller panel arrays 5 to 10 panels
- B) Water-fed poles for windows - panel arrays from 10 to 50 panels
- C) Water-fed poles with special wide brushes - 50+ panels to clean
- D) Multi-purpose rotary brushes - hundreds of panels
- E) Solar panel specific rotary brushes - thousands of panels

The size and positioning of the solar array will help determine the tools you choose for cleaning the panels. Multi-purpose rotary brushes allow for cleaning of panels mounted in a variety of positions and methods as well as will clean many other building surfaces including glass, building siding, stucco, brick and concrete (painted or natural surface).

Solar Arrays can be cleaned with water that is below 40 TDS and when rinsed well left to dry virtually spot free. In most areas this is accomplished by running the water through an RO membrane filter or DI tanks depending on the operator.

The residential market is typically a few panels to maybe 30 panels on a roof.

These are most often cleaned from the ground with a traditional water fed pole with either the standard WFP brush or a wide solar specific brush to reduce the time in cleaning, fewer swipes offers faster results.

Big box stores, manufacturing facilities, universities and city buildings with hundreds of panels on a roof are often walkable and a small pole with a wide brush can be used with a separate rinse. An RO truck-mount system can be used to

create the water often into a holding tank(s) and have the cleaning water pumped up on to the roof. If an operator can walk between the panels a wide brush for scrubbing and a rinse spray nozzle from a second operator is a quick method. A small power assisted rotary brush can be a time-saver in rooftop panel cleaning.

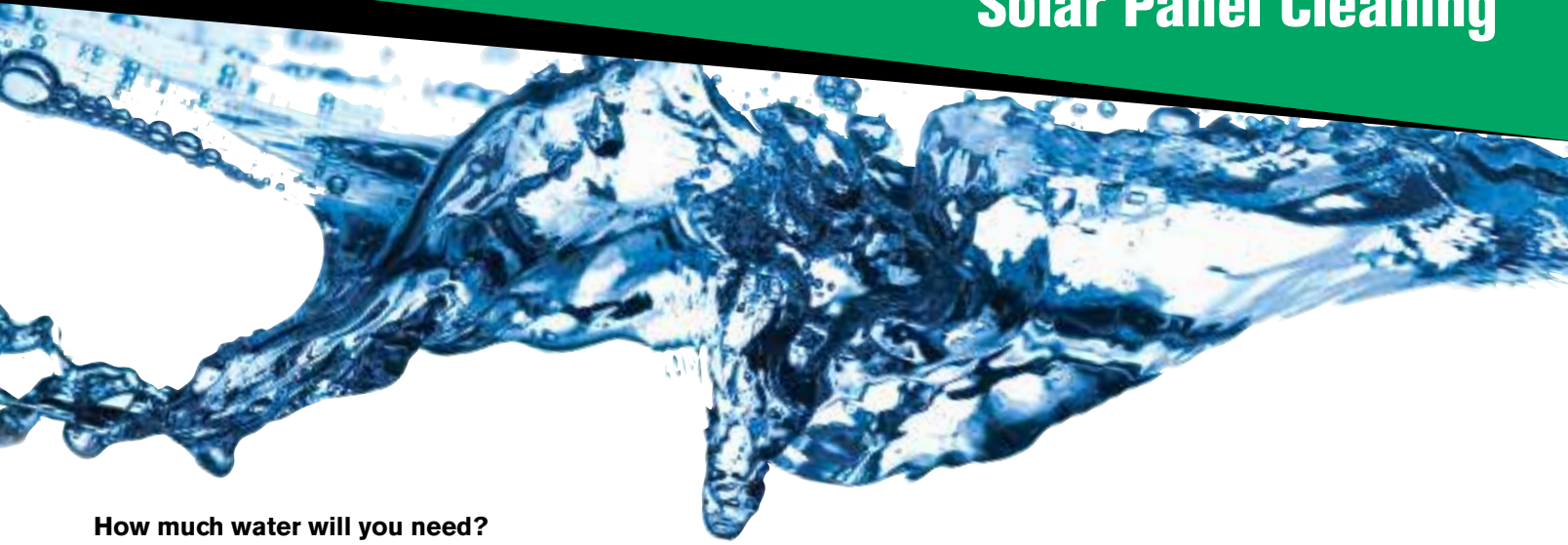
Solar panels on roofs above 5 stories will need additional pump capacity of the water source is on the ground.

- Large solar arrays need special planning, is water readily available?
- How far from the site and panels is the water?
- How quickly can the cleaning crew perform the cleaning given the choice of cleaning tool they use. Large array cleaning benefit from rotary brushes by reducing ten time scrubbing on each panel dramatically,
- With the correct rotary brush, a trained operator can clean 3 to 4 times as many panels per hour than an operator using a manual water fed brush method.
- For larger flat arrays of panels, a heavier brush can reduce the cleaning time required by half over a powered brush that is lighter.





# Solar Panel Cleaning



## How much water will you need?

Where water is readily available the need for large storage tanks and delivery systems is minimized. The further the panels from a water source the need for a clean water production area and delivery system tanks become necessary. A single operator could use between 1.5 and 3.0 gallons per minute depending on what brush they are using and how dirty the panels are.



## Chemical Pre-Treat

Very dirty panels will clean faster when a detergent/surfactant is applied during the cleaning process, chemical applicators are available stand alone or integrated into the panel water delivery system.



## Production Systems

Truck mount RO systems for water production are used to produce Clean Water (below 40 TDS) or pure water (TDS below 10) this water is produced into delivery tanks with sufficient capacity to allow cleaning most or all day from the tanks. Where the TDS at the job site is low (below 80 TDS), then DI resin tanks alone are used. If the panels are within 300 ft. or so of the panels then hoses can be used to deliver the water to the cleaning crew.

## When the Panels Are More than 300 ft. from the Production System

Delivery systems are used to move the water to the working area. The delivery systems are loaded on trucks, trolleys or trailers and wheeled back and forth between the production system and the panels to be cleaned. Delivery systems could be as small as 50 gallons or as large as 8,000 gallons on a trailer depending on the sites needs.

The RO production system, the delivery systems and the cleaning brushes will need to be sized correctly to provide the most efficient cleaning. J.Racenstein can help you design a cleaning system for all you panel cleaning needs.





# Solar Panel Cleaning

## Qleen Rotating Brush System

Proven cleaning solutions for daily outdoor use. Qleen systems are tried and tested and used successfully worldwide. The RotaQleen system allows for fast cleaning of Bus Stops, Canopies, Atrium Glass Solar Panels and siding. Dirty surfaces are cleaned faster with the RotaQleen brushes than by traditional methods.

Color Coded Bristles offer 3 levels of scrubbing strength:

- White for all Glass as well as Metal panels on curtain wall buildings
- Red for Solar Panels
- Blue for Building Facades, Truck, Bus Wash, and bus enclosures.

The RotaQleen system supports a chemical spray tip as well as nozzles for pure water rinse supporting a wide variety of cleaning tasks.

They are modular in design and can be configured depending on the difficulty of the job. Smaller and larger cleaning projects can always be implemented quickly and thoroughly.

The system includes one set of white brushes, power supply and 165 ft. cord. Red and Blue Brushes can be purchased separately.

16 in. Rotating Brush (White) System	159-011	\$2,300.00
23.5 in. Rotating Brush (White) System	159-021	\$2,500.00
8 in. Red Brush, Left	159-034	\$85.00
8 in. Red Brush, Right	159-035	\$85.00
11.5 in. Red Brush, Left	159-044	\$175.00
11.5 in. Red Brush, Right	159-045	\$175.00



## Pro 100% Carbon Fiber Pole

Built specifically for the Qleen Rotary Brush. This is a great length for 3-story work while still closing down to a 6 ft. closed length. The Qleen Adaptor 159-060 fits into pole section #3. It has 6 sections. The extended length is 32 ft. (add 3 ft. for working height). The closed length 6 ft. This pole weighs 6.75 lbs. without Qleen brush and hose.

32 ft. Pole	890-032	\$532.50
Brush Adaptor	159-060	\$44.55



## Boar's Hair Solar Brushes

Two rows of boar's hair bristles by 36 in. wide, this delivers unparalleled efficiency, improving productivity as much as three times faster than standard 12 in. brushes.

### Brushes with Nozzles

The brush with nozzles is used when you can not rinse from a spray nozzle, and features four fan jets and 50 ft. of special water hose. This brush likes to see 2 gallons per minute of water flow and requires at least 1.2 gpm flow. We recommend the use the 3-Star Dual 40 in. RO bypassing the DI cartridge in use with a boot pump or the Quattro RO/DI system and bypass the DI cartridge if the RO output is 35 TDS or Less.

18 in. Complete w/Fan Jets	25-1348	\$275.00
24 in. Complete w/Fan Jets	25-1354	\$299.00
36 in. Complete w/Fan Jets	25-1360	\$554.90

### Brushes without Nozzles

If you can use a hose nozzle to wet and rinse then you can use the Solar Brush without rinse nozzles. One person rinses ahead and behind an operator with this brush who is agitating the dirt off.

18 in. w/Bracket Only	25-1347	\$99.00
24 in. w/Bracket Only	25-1353	\$125.00
36 in. w/Bracket Only	25-1362	\$169.00



## Water-Powered Rotary Brushes

### Requirements:

- 580 PSI (40 BAR) pressure at brush head max
- 2.3 Gallons per minute (9 LPM) consumption

Recommended Pressure Washer is 3 gallons per minute (11 LPM), 1300psi (90 BAR)  
 Max. Water Temperature: 104° F (40° C)

The rotating roller brush was designed and built to clean solar panels, Vinyl and Aluminum Siding. It is a mobile, hand-operated unit designed to be positioned and operated manually on the surface to be cleaned.

Rotary hydrokinetically brushes offer considerable time savings in the cleaning operation performed on solar panels and building surfaces when compared to traditional fixed brushes.

The Solar Panels treated with the brush should be comprised of modules with a maximum tilt of 35°. Verify in the photovoltaic system's operating manual the type of brushes that can be used for cleaning it, so as not to cause abrasions on the panels' film.

It is important to avoid all operating situations that could cause repeated and unexpected stops of the brush's rotation, such as those specified below:

In the case of surfaces comprised of panels, the maximum distance between them must be 3 cm to prevent the unit from dropping into the empty space between one panel and the next.

The surfaces must be as free as possible of protruding bodies such as long screws, brackets, and terminals, which could obstruct brush rotation or rip out its bristles.

The unit is not designed to withstand heavy accidental impacts, such as those caused by being dropped, or those that are less intense but repetitive, such as those resulting from operating in stepped areas.

It is also very important that the operating pressure not exceed the maximum value indicated in the "Technical Specifications" in order to prevent excessively high rotation speeds from causing premature wear of the unit's mechanical parts.

When not in operation, never allow the unit's weight to rest on the rollers' bristles so as not to bend them.

24 in. Brush	159-134	\$1,630.00
Optional Guard	159-140	\$145.00
32 in. Brush	159-135	\$2,064.15



### 24-inch Model Specs:

Width: 24 in. (600mm)  
 Diameter: 4.7 in. (120mm)  
 Weight: 9.92 lbs. (4.5Kg)  
 Bristle: 0.6 in. (15mm)  
 Attachment: M22 x 1.5mm Connector

### 32-inch Model Specs:

Width: 31.5 in. (800mm)  
 Diameter: 5.9 in. (150mm)  
 Weight: 9.47 lbs. (4.3Kg)  
 Bristle: 0.6 in. (15mm)  
 Attachment: M22 x 1.5mm Connector

## Counter-Rotating Rotary Brushes

The rotating roller brush was designed and built to brush and wash solar panels. It is a mobile, hand-operated brush that is designed to be positioned and operated manually on the surface to be cleaned. Adjustment is manual to set the good angle on the panel. The floating system provides automatic adjustment on the panel vs. manual adjustment for the standard model.

Minimum Requirements: 435 PSI

Water Consumption: 2.3 GPM

Maximum Working Pressure: 725 PSI

16 in. Brush	159-131	\$226.75
16 in. Brush w/Floating System	159-132	\$400.00
6 - 8 ft. Pressure Washing Pole	74-5371	\$117.00
8 - 24 ft. Pressure Washing Pole	74-5372	\$172.00







## Roof Cleaning

Clean the black and green stains, bacteria, mold and mildew that impact the life of your roof. Studies show that roof life is increased by 50%. SoftWash cleaning does more by allowing the surface to be cleaned without damage. The SoftWash System can keep a roof cleaner 4 to 5 times longer than pressure washing.



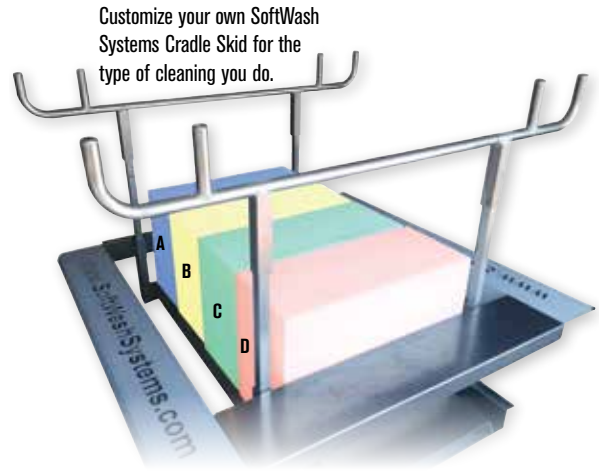
### Green Wash

Save money using GreenWash. It allows you to use less bleach than most other formulas.

- 3% Standard Sodium Hydrochloride Bleach Mix
- 4% Heavy Duty Sodium Hydrochloride Bleach Mix



Modules can be mounted curbside, right or left.



Customize your own SoftWash Systems Cradle Skid for the type of cleaning you do.



Mixing Tank Module with DPI Technology



Bulk Rinse Module



Buffer Storage Tank



Powdered Bleach Module



## Clean from the Ground

Many roofs can be cleaned using 30 to 50 ft. carbon fiber poles.



### Water-Fed Pole Gun

Acme 150-0951 \$169.00

Euro 150-0952 \$179.00



## Clean on the Roof



## Clean from a Lift



### Fall Prevention Kit for Residential Roofs

A safety kit for fall prevention while working on commercial or residential roofs. This kit includes the items listed below.

Kit 12-660 \$560.00

### #922 Gemtor Harness w/Side D-Rings

96-50 \$88.00

### 5/8 in. KMIII Rope w/Loop Eye Ends-75 ft.

90-1469 \$154.00

### 5/8 in. Static Mobile Rope Grab

94-903 \$105.00

### 16 in. Sky Genie Lanyard

96-222 \$59.75

### Caribiner

98-524 \$33.50

### Reusable Roof Anchors

99-302 \$22.00

### PMI Rope Pack

91-614 \$70.75



Bulk Storage Tank



Power Wash Module



Mounting Bracket  
for H2Pro Water Purifier



## Wood Deck Cleaning

Clean siding, decks, porches, pergolas, verandas, porticos, etc.



### Regular Building Wash

*1% Sodium Hydrochloride Bleach Mix*  
for general cleaning, most painted surfaces and wood, stucco, brick

### Medium Building Wash

*2% Sodium Hydrochloride Bleach Mix*  
for stronger cleaning, durable painted surfaces and wood, stucco, brick



### Green Wash

Green Wash replaces many additives that soft wash companies use today. Green Wash is a surfactant, scent masker, rinse aid and more. Green Wash makes sodium hypochlorite and calcium hypochlorite cleaning solutions bleach better at a lower overall concentration of bleach. All SoftWash Systems™ come with an injection system to meter the Green Wash into your mix.

5 Gallons	83-61	\$129.00
30 Gallons	83-62	\$719.00
55 Gallons	83-63	\$1,209.00
30 Case Pallet	83-64	\$4,389.00
275 Gallon Tote	83-641	\$5,639.00

## Rinse, Neutralize, Condition & Protect



### Wood Restore

Wood Restore is a leave-in wood conditioner that is applied after the final softwash rinse. Wood Restore neutralizes bleach, brightens wood, protects wood with an anti-microbial, light sealer and UV block. Treat untreated wood with Wood Restore semi-annually to help protect against wood destroying organisms and extend the service life of the wood product.

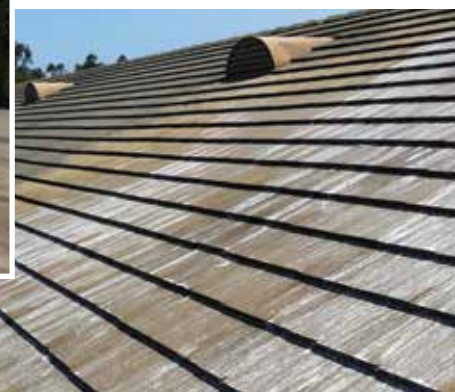
1 Gallon	83-700	\$29.00
5 Gallons	83-701	\$139.00



## Building Softwashing

### General Cleaning Needs

Dirt, grime, oily surfaces, dissolve spider webs on stucco, vinyl siding, wood siding, EAFIS and other exterior surfaces.



Gutters need cleaning too!



### Oxi Wash

Surfaces like aluminum or vinyl siding can be damaged by the UV rays of the sun on the southern and western exposures on the building. Aluminum also leeches oxides that cause a black or grey streaking on the aluminum surface or on adjacent surfaces. This oxidation can be easily removed by diluting the appropriate amount of Oxi Wash into water and then applying and brushing with a truck-wash style bi-directional brush. Although good results are often achieved with one application, a second application may be required and additional brushing may be required.

1 Gallon 89-06 \$33.00  
5 Gallon 89-07 \$149.00

#### 1:1 Ratio

1 Gallon of OXI WASH to 1 gal. of water (makes 2 gal.) for heavy chemical stripping of oxidation off of metal, fiberglass and vinyl surfaces.

#### 1:2 Ratio

1 Gallon of OXI WASH to 2 gal. of water (makes 3 gal.) for light chemical stripping of oxidation off of metal, fiberglass and vinyl surfaces.

#### 1:3 Ratio

1 Gallon of OXI WASH to 4 gal. of water (makes 4 gal.) for general removal of dark oxidation stains like gutter tiger stripes, window frame staining on EAFIS, dark oxidation streaks on recreational vehicles and the like.

Note: Always perform a small test in an inconspicuous area first.



### Terra Wash

Terra Wash is a softwashing chemical for use on non-organic stains like dust, mineral soiling, grease, and other stains that seem to not clean with bleach based cleaners. Terra Wash can be applied at various strengths for degreasing tough oils or grease and diluted down to clean light soiling and dust on homes and windows. Mix Terra Wash in a pretreat tank one-batch style or hook up a 5 gallon container to your Softwash Systems Green Wash Injection System. Like all Softwash Systems products, Terra Wash is 100% biodegradable and contains no phosphates. Terra Wash is PH adjusted and safe to be added to bleach cleaning solutions as well.

5 Gallon 83-60 \$99.00  
30 Gallon 83-601 \$569.00  
55 Gallon 83-602 \$999.00  
36 Case Pallet 83-601 \$3,395.00  
275 Gallon Tote 83-601 \$4,679.00



## Protecting Plants & Property

### Bleach Wash

#### Why?

Sometimes bleach based cleaners can leave behind residual that can later corrode metals, or even damage customers clothing. Some surfaces just need a good rinsing and the assurance that all of the bleach has been rinsed away.

#### How?

Bleach Wash is a finishing soap that buffers against and neutralizes bleach. Bleach Wash contains a heavy waxing agent that adds sheen and gloss to many exterior surfaces.

#### Results

The results are dramatic especially on high gloss surfaces like metal roofs, vinyl siding and even windows.



### Plant Wash

#### Why?

Softwashing concentrates on curing the source of the stain. Many times these stains are actually living bacteria, molds and fungus. Softwashing targets and kills these micro-organisms that cause these stains. However there are beneficial bacteria and molds in the soil that plants need to flourish.

#### How?

Plant Wash neutralizes bleach and other caustic cleaners on contact. Plant Wash also covers the leaves of the plants with a bleach buffer. Additionally Plant Wash feeds the plants through their leaves. Finally Plant Wash feeds the beneficial bacteria in the soil that plants cannot survive without.

#### Results

The result is little to no plant damage and often times plants and landscape that look better and greener after the softwash cleaning.





## SoftWash Systems Training Modules

Learn the business in a professional manner. Get ongoing support and training as your cleaning needs grow. SoftWash Systems does not certify the competency of any person or organization that uses this program. We do certify that you know the material and have passed the test at the end of the module with at least an 80% score. This certification is not intended for marketing purposes. This educational element called a certification is intended to heighten the awareness of certain soft wash business principals and aid the soft wash business owner in training his employees that he is solely responsible for. SoftWash offers 20 training modules. Each level of training includes a different combination of these modules. Visit [www.jracenstein.com/softwash-systems](http://www.jracenstein.com/softwash-systems) for a complete list of modules.

### Assistant Tech

Companies that complete large amounts of production often utilize a team approach to their cleaning process. The most common is a Lead Tech and Assistant Tech combination. Lead Techs on trucks can pay closer attention to detail if they have the relief of a good Assistant Tech. This package of six SoftWash Systems modules trains an Assistant Tech what their job duties are and how to view their responsibilities in relation to making their Lead Tech shine. Included are our Road Rules, Intro to Safety and PPE Assignment modules that cover the employees responsibility to company and personal safety. Package Price Includes Online Test.

### Lead Tech

Lead Tech's are your front line of completing clean, safe production. They have a higher level of knowledge than an assistant and need to know how to mix and deliver softwashing solutions on many exterior surfaces. This package of eight SoftWash Systems modules trains a Lead Tech what their job duties are and how to view their responsibilities in relation to supervising and completing the cleaning of various surfaces. Included are our Road Rules, Intro to Safety and PPE Assignment modules that cover the employees responsibility to company and personal safety. Also included are our Intro to Roofs, Intro to Surfaces and Intro to Windows modules. Package Price Includes Online Test.

### Salesperson

Salespeople need to know the softwash process and what they are selling. Our 12 module salesperson certification goes over not only how we clean these surfaces with softwashing but also all of the customer care and safety modules the Assistant and Lead Techs take. Additionally there are modules on marketing and pricing softwash services. Package Price Includes Online Test.

### Manager

Cleaning company managers need to interact with several areas of the business. Not only knowing how to softwash a surface but managers also need to be able to interact with the sales and business management divisions of the company as well. The Manager Certification combines 12 of SoftWash Systems modules that bring in softwashing, safety, sales, marketing and federal requirements like company manuals, licensing and compliance issues. Package Price Includes Online Test.

### Certified Applicator

All twenty of SoftWash Systems training and certification modules make up our Certified Applicator program. We recommend any softwash owner undergo this training and test for this certification. Once you complete this Certified Applicator program and take the 300 question test you will be able to join SoftWash Systems as an in-network company and co-brand with us using our Certified Applicator medal on your collateral materials, trucks and website. Package Price Includes Online Test.



### Revolution Camp

For all levels of SoftWashing professionals, from newbies through Certified Applicators, as well as employees of Authorized and 5 Star companies

- 9 classes led by AC Lockyer and our SoftWash Systems Pro Staff with a hands on proficiency check and testing earning you a SoftWash Systems Lead Tech Certification.
- PPE Gear / Binder Coursework
- Access to Event Only Show Special Pricing

### SoftWashapalooza

For advanced SoftWashing professionals, from Authorized through 5 Star Applicators

- 10 classes led by AC Lockyer and our SoftWash Systems Pro Staff
- Keynote Speeches from AC Lockyer and others
- SoftWash Systems Expert Panel Q&A
- Access to Event Only Show Special Pricing

### Dates & Locations

August 13 - 14	Troutdale, OR
September 17 - 18	Quakertown, PA
October 22 - 23	San Antonio, TX

Complete Calendar:  
[www.SoftWashSystems.com/Revolution-Camps](http://www.SoftWashSystems.com/Revolution-Camps)

January 2016

Complete Calendar:  
[www.SoftWashSystems.com/Softwashapalooza](http://www.SoftWashSystems.com/Softwashapalooza)



# Vacuum Systems

## Interior Vacuum Pole Set

This set of poles and attachments is added on to the center vacuum to perform Interior high cleaning of sills, vents, ducting, walls and ceilings. The high capacity vacuum allows you to clean without dropping dust.

21 ft. Pole Set w/Hose & Cuffs	158-0231	\$449.70
21 ft. Pole Set	158-023	\$395.00
5 ft. Locking Telescopic Wand Ext.	158-026	\$42.00
8 in. Sidewinder Brush w/Stl Collar	158-031	\$40.00
18 in. Sidewinder Brush w/Stl Collar	158-032	\$55.00
4 in. Pipe Cleaning Brush w/Stl Collar	158-033	\$26.00
8 in. Pipe Cleaning Brush w/Stl Collar	158-034	\$34.00
1.5 in. Hose Cuff, Black	158-036	\$3.95
2 in. Hose Cuff, Grey	158-037	\$4.50
25 ft. Hose, 1.5 in. Diameter	158-038	\$39.75
50 ft. Hose, 1.5 in. Diameter	158-0381	\$77.00
Short Tube	158-039	\$6.50
Foam Filter	158-045	\$19.00



## Vacuum Wet/Dry 2 Motor

Offers the strongest vacuum power available for tough cleaning like gutters. Each motor can be individually activated as the intended project requires helping allowing great flexibility in the workplace. The heavy duty polypropylene molded head can handle significant impact without damage, protecting the motor, switches and other key components. These vacuums are mounted on heavy duty metal frames that support the tough use associated with loading them on and off trucks or vans at the job site. The heavy metal frame makes it ideal for moving over uneven ground and move over uneven surfaces without the risk of failure. The frame also offers a tilt feature making emptying the bin an easy task with no risk of injury.

158-011 \$1,195.00



## Oxi Wash

Surfaces like aluminum or vinyl siding can be damaged by the UV rays of the sun on the southern and western exposures on the building. Aluminum also leeches oxides that cause a black or grey streaking on the aluminum surface or on adjacent surfaces. This oxidation can be easily removed by diluting the appropriate amount of Oxi Wash into water and then applying and brushing with a truck-wash style bi-directional brush. Although good results are often achieved with one application, a second application may be required and additional brushing may be required.

1 Gallon 89-06 \$33.00



## Gutter Zap Touchless Gutter Cleaner

Gutter Zap is a revolutionary cleaner that will remove black streaks from gutters caused by the electrostatic bonding of tar and asphalt from roofs. Can be touchless with spray on and rinse off or with light agitation from a very soft brush. This product is concentrated and can be diluted two parts water to one part product and up to three parts water to one part product.

Gallon 89-01 \$23.00  
5 Gallon 89-05 \$78.00



## Chomp Pro Strength Gutter and Trim Cleaner

- Tetraflex® D Soil Barrier create an "invisible barrier" to help keep your home cleaner . . . longer!
  - DST Technology supercharges Chomp Pro's cleaning power. It instantly removes stubborn black streaks and stains
  - Spray & wipe formulation
  - Safe for metal, vinyl, wood
- R.T.U. Gallon 89-670 \$15.10  
R.T.U. 5 Gall. 89-671 \$70.00



## Flow-Thru Brushes

- Green: Very soft, for smooth and polished surfaces signs, skylights gel coat
  - Blue: Soft for auto paint and glass surfaces
  - Beige: Stiff, for siding, stucco, brick, wood
- 10" Very Soft Green 66-505 \$15.50  
10" Soft Blue 66-502 \$12.80  
10" Stiff Beige 66-507 \$12.80



## Extension Pole

Lightweight, Rigid, Aluminum poles with easy locking collars. The 30 ft. pole allows you to drop sections. All pole sections 2 through 5 feature handles that allow easy use at any height. So, if you only need an 18 ft. pole, remove the other two sections and work with a lighter pole then add back sections to go back to 30 feet.

Extended Length	Closed Length	No. of Sections	Part #	Price
4 ft.	24 in.	2	60-004	\$18.50
8 ft.	51 in.	2	60-008	\$21.00
12 ft.	60 in.	3	60-012	\$32.25
18 ft.	84 in.	3	60-018	\$40.00
30 ft.	90 in.	5	60-030	\$105.75



## Bi-Level Flow-Thru Brushes

- Lightweight plastic block, brushes float
  - Chemical resistant materials work well with many types of cleaners
  - Threaded brushes fit all Mr. LongArm poles
- 10" Very Soft Green 66-509 \$19.25  
10" Soft Blue 66-510 \$18.25  
10" Stiff Beige 66-511 \$15.00





## Moerman Liquidator

The Liquidator has been developed with, tested and approved by professional window cleaners and has proven to make the difference in:

### Efficiency

The Liquidator is a channel with specially designed end tips that supports the Dura-Flex® rubber blades all the way to the end tips. This allows the Liquidator to go all the way to the edge of the corners of the window frame, leaving close to none water residues, which reduces cloth prepping and detailing significantly. Extensive tests proved that working with a Liquidator means a time saving of up to 25% or even more!

### Amazing Result

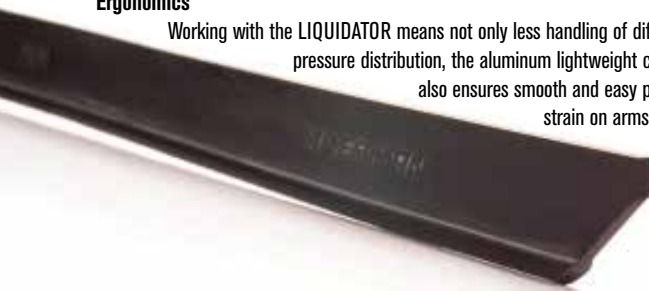
The LIQUIDATOR works on all kind of windows: with thick or thin rubber seals, old or new steel edges, wooden, plastic or aluminum frames, etc. With the Liquidator, the rubber stays put which provides a one pass capability on the seals. With the Liquidator, an amazing result is guaranteed!

### Safe

Thanks to the very limited detailing, professionals don't have to stretch or lean over as much to reach that last bit of soap scum with their rag. Logically, this will help prevent ladder related injuries. The plastic end tips avoids damage to the window frames as well as bodily parts in the event of accidental stabbing.

### Ergonomics

Working with the LIQUIDATOR means not only less handling of different tools, but due to the perfect pressure distribution, the aluminum lightweight channel floats like air on the glass, which also ensures smooth and easy performance without causing excessive strain on arms and shoulders - even after hours of intensive window cleaning.



## Safety Equipment

### Telesteps Ladders

#### Telescopic Ladder

Easy to handle, easy to store without taking up the space required for traditional ladders.

16 ft. Telescopic	72-403	\$355.00
18 ft. Telescopic	72-407	\$410.00

#### Combi Ladder

Strong, lightweight aluminum combination step, extension and adjustable ladder for use on flat surfaces or stairs.

10 ft. Combi	72-410	\$250.00
12 ft. Combi	72-412	\$325.00
14 ft. Combi	72-414	\$435.00

#### Stik Folding Ladder

6 ft. Stik Folding	72-420	\$116.00
6 ft. Stik 2-Sided Folding	72-421	\$163.00



### Platinum® Rope

Platinum® stands for an entirely new breed of patent pending rope safety ropes made with cutting edge technology. It is characterized by the permanent mechanical interconnection between the rope's core and it's cover.

- New and innovative braiding technology
- Greater safety, longer service life, more flexibility, and better handling
- Robust in resisting extreme abrasive forces
- Polyamide core and cover

7/16 in., 300 ft.	90-1311	\$390.00
7/16 in., 590 ft.	90-1312	\$750.00



# ProTool Cleanup

## Softwashing

Softwashing is derived from using low pressure water to clean exterior building surfaces. Softwashing generally uses a chemicals to assist in the cleaning process and a fresh water rinse afterward to leave a fresh, clean restored surface. Softwashing is used to safely clean Building surfaces (roofs, siding, desk, wood fences and outbuildings) quickly and economically. The chemicals are biodegradable and effective. Hardscape (sidewalks, brick paths, driveways, block walls, dumpster pads) can be cleaned with either Softwashing or pressure washing.

The equipment used varies based upon a variety of things but often is based the operators preference for a certain method.

Equipment starts with something as simple as a small sprayer holding the chemical solution and being sprayed on the roof, these pump-up sprayers are a capable solution for decks and small siding projects.

The larger areas with more work to perform dedicated truck/trailer mount systems and sprayers attached to hose reels are employed. Powerful spraying pumps, both 12v and gas powered are employed to draw water or the cleaning solution from the tanks and deliver it to the building surface. Often dedicated spray rigs are used for Softwashing that draw pre-mixed cleaning solution from storage tanks, however, Pressure washers are easily adapted to low pressure Softwashing as the cleaning solution can be or mixed

**ProTool Cleanup** is a heavy duty cleaner that is effective at most cleanup tasks, highly concentrated and used for cleaning and degreasing of exterior surfaces. Cleanup contains water-based solvents that cuts through dirt, great and grim with a non-corrosive formula. When mildew is not present use Cleanup as a House Wash for Aluminum, Vinyl or Stucco Siding cleans dirty oil spots left behind on parking and gas station pads, in parking structure. Cleanup is a quick-acting, industrial strength liquid concentrate that cuts through oil deposits, dirt and grime on a variety of surfaces. Always rinse the cleaned surface thoroughly after product use.

1 Gallon 83-091 \$14.90  
5 Gallons 83-092 \$74.00



BEFORE



AFTER





with water after the pump system either at the truck/trailer mount via a down stream injector or at the operators wand tip via an X-jet method.

In all cases, Softwashing is performed at pressures between 45 and 200psi. These low pressures insure that the building surfaces are not damaged or the solution driven under the surface the penetrating into the surface.

The chemicals employed are designed for the type of cleaning being performed, moss, mold, mildew and bacteria removal will include a bleaching agent, roofs are cleaned with a stronger solution than other building surfaces. There are chemicals for all

types of grime on the surfaces, molds, mildew, bacteria, oily buildup from fume hoods or vehicle oils, Spider webs, and pollen all have chemical solutions geared to make the cleanup easy to accomplish while offering a beautiful result.

### Application

The solution is sprayed on to the surface and allowed to dwell to let the solution work on the dirty surface. A clear water rinse is then performed on most surfaces to leave behind a clean, restored surface. Once cleaned, many surfaces will benefit from further action, wood can be restored and/or sealed, pavers can be sealed, building surfaces are ready to be painted if necessary.

**ProTool Stick** is used with sodium hypochlorite (SH) and water to clean mold, dirt, and mildew stains from surfaces. ProTool Stick allows the cleaning solution to dwell on the roof, house siding, fencing or patio deck to effect a quick and powerful clean. When cleaning a roof you will not need to rinse afterward. When cleaning house walls, vinyl or aluminum siding, stucco, wood or plastic wood decks, fences driveways or pavers, rinse the surface after cleaning.

1 Gallon	83-01	\$17.95
5 Gallons	83-02	\$82.00
30 Gallons	83-03	\$450.00
55 Gallons	83-04	\$735.00



BEFORE



AFTER



BEFORE



AFTER



BEFORE



AFTER

# Window Cleaning Tools



## Professionalsqueegees Rubber

The study of rubber and the knowledge of its characteristics has given us the opportunity to make a product with physical and mechanical performance at the top on the market.



Size	Hard Rubber		Gross	
	Part #	Price	Part #	Price
14"	03-5143	\$20.75	03-5144	\$236.25
18"	03-5183	\$23.25	03-5184	\$269.25
22"	03-5223	\$28.00	03-5224	\$321.75
36"	03-5363	\$38.00	03-5364	\$426.00

Size	Soft Rubber		Gross	
	Part #	Price	Part #	Price
6"	03-5061	\$11.90	03-5062	\$134.75
8"	03-5081	\$14.01	03-5082	\$156.25
10"	03-5101	\$15.70	03-5102	\$178.00
12"	03-5121	\$17.25	03-5122	\$195.00
14"	03-5141	\$20.75	03-5142	\$236.25
16"	03-5161	\$21.75	03-5162	\$249.75
18"	03-5181	\$23.25	03-5182	\$269.25
20"	03-5201	\$25.75	03-5202	\$297.00
22"	03-5221	\$28.00	03-5222	\$321.75
24"	03-5241	\$30.00	03-5242	\$345.25
28"	03-5281	\$33.75	03-5282	\$382.25
36"	03-5361	\$38.00	03-5362	\$426.00

## Pro T-bars

### Blue T-bar

This rigid T-bar slips inside the mops and is dipped in soapy water and used to loosen the dirt from the glass.

10 in. Blue w/Ergo Grip	10-0102	\$3.45
14 in. Blue w/Ergo Grip	10-0142	\$4.35
18 in. Blue w/Ergo Grip	10-0182	\$5.25



### Plastic Gray T-bar

One piece, solid construction. Lightweight with water wells for even water distribution.

14 in. Plastic Pro	10-0141	\$7.95
18 in. Plastic Pro	10-0181	\$8.55



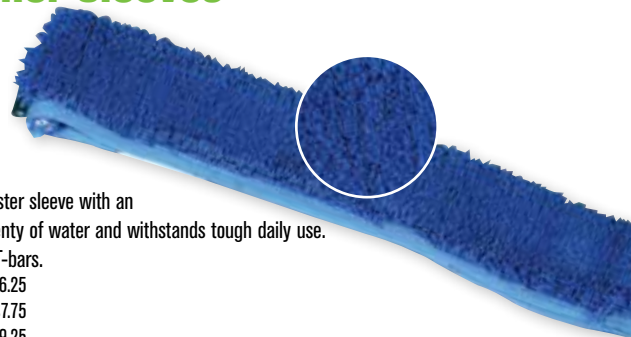
## Pro Washer Sleeves

### Blue Sleeve

This heavy duty polyester sleeve with an abrasive end holds plenty of water and withstands tough daily use.

Fits on most popular T-bars.

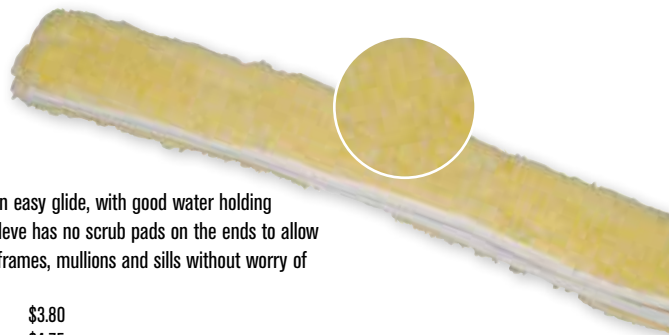
10"	11-0102	\$6.25
14"	11-0142	\$7.75
18"	11-0182	\$9.25
22"	11-0222	\$9.85
30"	11-0302	\$12.00



### Yellow Sleeve

This pad offers an easy glide, with good water holding capability. This sleeve has no scrub pads on the ends to allow for cleaning the frames, mullions and sills without worry of scratching.

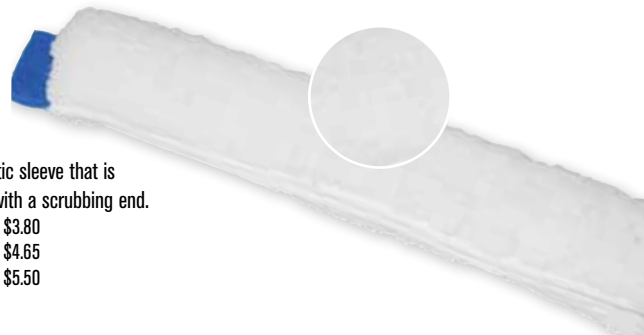
10"	11-01002	\$3.80
14"	11-01402	\$4.75
18"	11-01802	\$5.70



### White Sleeve

Plush woven synthetic sleeve that is machine washable with a scrubbing end.

10"	11-01001	\$3.80
14"	11-01401	\$4.65
18"	11-01801	\$5.50





## Side Bucket Holsters

### Pro Hard Holsters

Used for interior cleaning this hip bucket attaches to your belt. Typically not used to hold soapy water but instead offers the cleaner a place to hold the hand mop. Includes slots to holster your squeegees while mopping the glass.

Red	48-02	\$17.00
Gray	48-03	\$17.00
Blue	48-04	\$17.00
Purple	48-05	\$17.00



### Soft Holster

The Original Soft BOB, or bucket on a belt, is a unique accessory, the first of its kind. Able to hold up to an 18-inch strip washer, two squeegees and detailing towels or scrim this soft bucket on a belt is made from durable vinyl.

48-63 \$34.00

## Window Cleaning Buckets

Mix your window cleaning solution in this rectangular bucket. Specifically designed for Window Cleaning this bucket makes rinsing the mop easy and quick. The bucket holds 6 gallons of water, and is 19" x 10" x 10".

Gray Bucket	20-001	\$17.50
Red Bucket	20-003	\$17.50
Purple Bucket	20-005	\$17.50
Blue Bucket	20-007	\$17.50
Gray Standard Lid	21-0010	\$6.35
Red Standard Lid	21-004	\$7.25
Purple Standard Lid	21-006	\$7.25
Purple Standard Lid	21-008	\$7.25



The EZ Snap Lid (sold separately) offers a way to minimize spills when transporting the bucket to different work sites. The Standard Lid offers better spill prevention, but is harder to close.

Gray EZ Snap Lid	21-001	\$3.95
Red EZ Snap Lid	21-003	\$4.60
Purple EZ Snap Lid	21-005	\$4.60
Caster Kit (4)	21-015	\$7.95



Better water management as the lid edge wraps over the lip



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## BlackDiamond Soft Rubber

BlackDiamond Squeegee Rubber was originally started by a customer which found the existing products on the market too expensive and wanted to be able to get different hardnesses in his rubber. 15 years later BlackDiamond is sold worldwide as finished product or OEM for some of the largest distributors in the world.

14 in. Dozen	03-9141	\$17.00
14 in. Gross	03-9142	\$192.00
18 in. Dozen	03-9181	\$20.00
18 in. Gross	03-9182	\$230.00
22 in. Dozen	03-9221	\$26.00
22 in. Gross	03-9222	\$325.00
36 in. Dozen	03-9361	\$38.00
36 in. Gross	03-9362	\$395.00



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