



Before



After

Polymatrix Ultra Clean spray leaves a protective coating with a nice, smooth finish. Before and after photos show what it did for this New Holland tractor.

Titanium Coating Cleans, Polishes, Protects

“For extreme bling, Polymatrix is King.” is a perfect tagline for Polymatrix Ultra Clean spray that cleans, polishes and protects all kinds of equipment.

The star ingredient is titanium, says Maxx Maxwell, President and CEO of Polymatrix Systems, a family owned business.

“We started adding titanium a few years ago, and it’s made a big difference for construction and farm equipment,” he says, noting that construction and agriculture are the biggest markets for the product.

The business started making protective coatings 24 years ago. Polymatrix Super Coat is an instant oxidation eliminator that restores color where pigment is still present. Besides being useful to restorers, the coating protects against minor scratches, brake dust, road salt, tree sap, acid rain, UV rays, etc.

“It has a nice, smooth finish with no wax or residue. It’s a protective coating on all types of equipment. Apply it to glass, and it won’t collect dust. It protects equipment from manure and fertilizer,” Maxwell says. “Many

clients use it on sugar beet equipment, which takes a beating.”

While Ultra Clean is typically sprayed on and buffed with a cloth, then left in the sun to create a thermal bond, it can also be sprayed under machinery and in hard-to-reach areas. Heat cures it to make Polymatrix work like an undercoating. It also works well inside concrete mixers, and on graders and scrapers to make them easier to clean up.

By using Polymatrix Ultra Clean spray every couple of years, owners keep equipment clean and more valuable for trade-in. Just a 4 oz. bottle (\$19.50) covers a pickup, and one to two 24 oz. bottles (\$50 each) will coat a combine.

It can be used on metal, polishable plastics, glass, aluminum, stainless steel and wood stocks on firearms.

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“It works well and is limited only by the power of the tractor’s hydraulics,” says Michael Heron about the front-end loader he built for his MTD 990 garden tractor.

Loader Built For MTD Garden Tractor

When Michael Heron decided he needed a loader for his 1980’s MTD 990 garden tractor, he used various parts he already had to build a self-designed rig.

The tractor came with a small hydraulic cylinder on front but it had a very small stroke so Heron replaced it. He kept the original hydraulic hoses and extended them.

He used 2-in. square tubing to make a subframe that bolts to a steel plate on front of the tractor, which originally supported a snowblower. The loader arms are hinged to the subframe and also welded to the back side of a 3-ft. bucket made from 1/8-in. thick steel. An electric winch is used to gravity dump the bucket, and a hydraulic cylinder to raise and lower the loader.

The winch bolts onto the frame and the

cable attaches to the bucket. “For some reason the winch wasn’t able to hold the load once it was raised off the ground, so I made a hook-shaped metal catch and bolted it onto the bucket,” says Heron. “I flip a starter solenoid switch to open the catch and dump the bucket, then push a button so the winch will pull the bucket back into position.

“The loader works well and is limited only by the power of the tractor’s hydraulics,” says Heron. “It comes in handy to lift gravel and dirt. I also use it around our garden and to clean out our barn. It didn’t cost much to build as most of the components were used.”

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He Built A New Fuel Tank For His Cub Tractor

Jesse LeBlanc, Gibson, La., recently bought an early 1970 IH Cub tractor equipped with a belly-mounted mower. The fuel tank on it was rusty, with about an inch of thick sludge on the bottom, so he built a new aluminum fuel tank and inserted it inside the existing tank.

The hood and tank on the tractor were originally designed as a one-piece unit.

“I removed the hood and tank, then turned the tank upside down and cut out the bottom 3/4 in. from the sidewalls,” says LeBlanc. “I sandblasted both the hood and tank with a fine aggregate, and also primed and painted the tank both inside and outside. Then I built a new tank 1/2 in. smaller than the cut-out old one, leaving a 1-in. overlap on the bottom so that I could fasten it on with self-tapping screws.”

The tank’s original fill tube had an inside diameter of 2 3/8 in., which is the same as a standard 2-in. pipe. So LeBlanc temporarily installed the tank back in the tractor, then put a 3-in. long threaded aluminum nipple in the original fill hole and marked where to cut and weld it. He used a pvc threaded cap, with a 1/16-in. vent hole through the threads, as the filler cap.

“I drilled and tapped a 1/4-in. NPT hole in the bottom of the tank and then installed the fuel valve assembly. My fuel problem was fixed, and the new tank looks original. It just doesn’t hold quite as much fuel as the old one,” says LeBlanc.

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Joe Thramer says his new heavy-duty Herd Boss Feeder lets you use any size flatbed pickup to put out wet or dry feed.

Pickup-Mounted Feeder Handles Wet Or Dry Feed

“Our new Herd Boss Feeder lets you use your pickup to put out wet or dry feed, including distillers grain, ear corn, silage, ground hay, cottonseed, sugar beets, or anything else you want to feed on pasture,” says Joe Thramer, Ericson, Neb.

The heavy duty steel feeder fits any size flatbed pickup and is powered by a 12-volt, 1 hp. electric motor, which drives a floor chain through a 50-to-1 gearbox. Three models are available. The smallest model measures 28 in. wide, 8 ft., 6 in. long, and 38 in. high. It can hold 2,000 lbs. of modified distillers grain or cake, 33 bu. of ear corn, or 39 1/2 bu. of wet corn and can also handle silage, ground hay or any mixture of feed.

“It’s a totally new design in pickup feeders that can handle wet or dry feed equally well,” says Thramer. “I came up with the idea because I’ve been feeding cattle for 40 years and always wanted a way to feed distillers grain without worrying that it will plug up the feeder.

“Most other pickup-mounted feeders use augers and come with tapered sides. They work fine for feeding dry pellets or corn but can easily plug up when using wet or dry, bulky feed. The Herd Boss box has straight sides, and the floor chain grabs the material positively to keep it from bridging up. The box is small enough that you still have room on back of your flatbed to haul a big bale or pull a gooseneck trailer.”

The 2,000-lb. capacity Herd Boss sells for \$5,150. Models that hold 4,000 or 5,000 lbs. of distillers grain are also available.



Feeder is powered by a 12-volt electric motor that drives a floor chain through a 50-to-1 gearbox.

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