



## SPECIFICATIONS FOR THE SUPER SEALCOATER 550 TRAILER MOUNTED SEALCOAT APPLICATOR

420 N. Roosevelt Ave. • Chandler AZ 85226  
1-800-528-8242 • (602) 276-0406 • FAX (480) 961-0513  
www.crafco.com

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### GENERAL

The purpose of this specification is to describe a seal coat applicator that is specifically designed for and capable of applying all grades of emulsion based seal coat without any further equipment modification. This machine will be the manufacturer's current production model. The machine will be capable of starting at ambient temperature and be ready for operation in one half hour or less. All qualified bidders must have and maintain a complete inventory of repair parts and have experienced factory-trained service personnel for this equipment. A comprehensive safety manual shall be supplied with each unit. A factory-trained person shall be made available for initial start-up and training in the operation of this equipment.

### TOWING FRAME AND JACK

This machine shall be trailer mounted. The longitudinal side frames and tongue members of the trailer shall be of one continuous piece construction composed of hot rolled steel channel having the minimum dimensions of 4 inches (10.2 cm) web, 3/16 inch (.48 cm) thickness with 1 3/8 inch (3.5 cm) flanges. The configuration of the channels shall be cold formed with the flanges on the outside resulting in a one-piece frame member with no cross welding of or on the flanges to avoid any possibility of flange stress cracking. The tongue shall be equipped with a heavy duty ball or pintle hitch and shall be adjustable in height above ground level from a minimum of 14 inches (35.6 cm), to a maximum of 32 inches (81.3 cm), permitting practically level towing with a wide range of towing vehicles. The towing hitch shall be bolted to the hitch plate for easy height adjustment and/or conversion to other type hitches. A screw-post tongue jack shall be furnished. It shall be a heavy duty type with a load capacity of 7,000 pounds (3,175 kg) and it shall be side mounted and swing away for positive road clearance while under tow.

### RUNNING GEAR

This machine shall be equipped with double torsional axles having a safe load capacity of 12,000 pounds (5,443 kg), electric brakes, modular wheels and LT235/85R 16 tires (Load Range E). The machine shall have dual taillights, stop lights and turn signals. A license plate holder shall be attached below the driver's side taillight. All the machine fluid tanks shall be positioned no lower than the machine frame. This machine shall also be equipped with two safety chains not less than 48 inches (121.9 cm) of 3/8 inch (0.96 cm) coil proof, attached to the tongue with a 9/32" (0.71cm) shackle connecting on the end attached to the frame and screw type clevis pin on the opposite end. Total shipping weight is approximately 4080 pounds (1850 kg).

### AIR COMPRESSOR UNIT

This machine shall be equipped with an air compressor unit that will be used to power all the machine functions. The air compressor unit will consist of a 13 HP gas engine with electric start, a 28 CFM pump, and a 30 gallon air tank.

### MATERIAL TANK

The material tank shall be a steel tank with the dimensions of 48 3/8 inches (122.9 cm) in diameter by 71 1/2 inches (181.6 cm) long having a capacity of 550 gallons (2084.5 L). The tank skin is to be made of 10 Gage, 0.134 inch (0.34 cm) hot rolled sheet steel minimum with bulkheads on each end made of 3/16 in (0.47 cm) hot rolled steel. The material tank will have a hydraulically driven full sweeping horizontal paddlewheel style agitator. This feature will insure that the material remains in complete suspension. The agitation system is chain driven from the hydraulic motor with a sprocket reduction to the agitator. The agitator shall rotate in either direction with infinite speed control. The agitator will be equipped with rubber wipers on the end of each paddle. The material tank will have a opening to load material, it will be centered on the top of the tank. The opening shall be a minimum area of 576 square inches (3716 square cm) approximately 24 inches (60.9 cm) by 24 inches (60.9 cm) and shall be hinged to easily fill the material tank. The hatch shall include an inner splash lid, and grating with a serrated piece to open sand bags. There will also be a screw down locking knob to secure the lid during transport.

## **MATERIAL SYSTEM**

The material piping will be constructed of 2 inch Sch. 40 steel pipe and 2 inch rubber hose. The material will be drawn off the bottom, rear of the material tank using an air operated pump. It will then go through the strainer box where any foreign matter will be captured by a strainer basket. The strainer box dimensions will be 8 inches (20.3 cm) wide by 8 inches (20.3 cm) deep by 10 inches (25.4 cm) tall, for a total volume of 2.75 Gal (10.4 Liters). It will have a removable lid and a lid strap to hold the lid tightly in place. The strainer basket will be 6 inch (15.24 cm) O.D. by 7 inch (17.78 cm) long. Connected to the strainer box will be a 2 inch (5.1 cm) air diaphragm pump. Attached to the discharge side of the material pump will be an expansion tank. The function of the expansion tank is to eliminate any surge caused by the material pump and also act as a manifold for the material application piping. The dimensions of the expansion tank will be 5 inches (12.7 cm) wide by 5 inches (12.7 cm) deep by 14.375 inches (36.5) tall, for a total volume of 1.56 Gal (5.9 Liters).

## **HOSE REEL, APPLICATION HOSE, AND HAND WAND**

The hose reel shall be a manual winding hose reel and have the capacity to store 100 foot of ¾ inch hose. It will be mounted to a base that will allow it to swivel a minimum of 180°. The application hose shall be an abrasion resistant ¾ inch (1.9 cm) hose that is 100 foot (30.5 m) in length. The hand wand shall be constructed of a ¾ inch in line swivel, a ¾ inch ball valves, a ¾ inch x 72 inch (182.9 cm) long aluminum pipe body, a ¾ inch 90° elbow, a ¾ inch to ¼ inch bushing, and a 80/50 flat spray nozzle.

## **HYDRAULIC TANK**

The hydraulic tank shall be a steel tank with the dimensions of 24 inches (61 cm) long by 8 inches (20.3 cm) wide by 9 inches (22.9 cm) tall and having a capacity of 6.7 gallons (25.4 L). The hydraulic tank will have (1) fill pipe, (1) discharge port, and (1) internal filter that also acts as a return port.

## **HYDRAULIC SYSTEM**

The hydraulic system for this unit will be used to drive the material tank agitator. It will be made up of a hydraulic pump, a hydraulic control valve, and a hydraulic motor. The hydraulic pump shall be coupled and driven off the engine on the air compressor unit. The hydraulic control valve will allow for infinite speed control in both the clockwise and counter clockwise direction. The components will be connected together with (1) suction hose that is rated at 300 psi, all other hoses to be rated at 3000 psi.

## **WATER TANK**

The water tank shall be a plastic tank with the dimensions of 42 inches (106.7 cm) long by 18 inches (45.7 cm) wide by 10 inches (25.4 cm) tall and having a capacity of 35 gallons (132.7 L). The water tank will have (1) 4" access port, (1) 2" fill pipe, (1) 1" discharge port, and (1) ½" discharge port.

## **WATER SYSTEM**

The water system will be capable of two functions. The first function is the capability to spray water out of the water tank using a ¼ inch (0.635 cm) air diaphragm pump and a spray nozzle. The second function is the capability to clean out the material piping with the water from the water tank. This is accomplished by connecting the water tank to the material piping and using the material pump to suck water from the water tank. A check valve is placed between the water tank and material piping to prevent the material from contaminating the water tank.

## **STORAGE DECK AND RAMP**

The storage deck will have a non skid storable space that is 55 ½ inch (141 cm) long by 42 inch (106.7 cm) wide for a total of 2331 square inches (15044.7 square cm). It will also be equipped with a 60 inch (152.4 cm) long by 41.5 inch (105.4 cm) wide flip up ramp.

## **PAINT**

All painted surfaces shall be coated with urethane industrial grade paint.

**OPTIONS (X if to be included:)**

- 2 5/16 inch Ball Hitch
- 2 1/2 inch Pintle Hitch
- 3 inch Pintle Hitch
- Brush Box
- Spare Tire

**TRAINING**

An authorized, factory-trained representative will be made available for a full day of training at a facility designated by the bidding agency. At this training session a complete operational, mechanical and safety overview will occur.

**SAFETY AND TRAINING MANUALS**

A written operator's manual will be provided with each machine.

**PARTS**

Bidders must show proof that a large stock of parts for the model of equipment upon which he is bidding is maintained at his facility.

**WARRANTY**

The manufacturer shall warranty the equipment for one year or as otherwise noted in the manufacturer's standard warranty policy.

**APPROVED EQUAL**

These specifications are not intended to be restricted, but are meant to describe the kind and size of unit desired to be purchased in detail. If a bidder is basing his proposal on other equipment than what is specified in these bid documents and wishes the equipment he proposed to be considered as an "approved equal," he will submit on a separate sheet, attached to the Technical Specifications contained herein, an item by item description of that which he proposes. For purposes of comparison, include only those items on each sheet as given in these Technical Specifications. Such bidders shall also include, but not as a substitute for the above, any manufacturer's literature or specifications. In addition, if the bidder takes exception to any item, he will note the item and describe in detail the exception and how his proposal is an "approved equal". Failure to carry out the provisions noted herein may be deemed sufficient reason to reject the bidder's proposal.