



SPECIFICATIONS FOR THE SUPER SEALCOATER 800 SKID MOUNTED SEALCOAT APPLICATOR

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GENERAL

The purpose of this specification is to describe a sealcoat 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.

SKID FRAME

This machine shall be skid mount. The longitudinal side frames of the trailer shall be of one continuous piece construction composed of hot rolled steel channel having the minimum dimensions of 3 inches (7.62 cm) web, 0.17 inch (.4318 cm) thickness with 1.41 inch (3.525 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. It will be equipped with a total of eight mounting tabs, four on each side, and shall be mounted to the vehicle using 5/8" grade 8 bolts.

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 58 3/8 inches (148.3 cm) in diameter by 71 1/2 inches (181.6 cm) long having a capacity of 800 gallons (3032 L). The tank skin is to be made of 10 Gage, 0.134 inch (0.34 cm) hot rolled sheet steel 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 three paddle 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 an 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 90°. 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, (1) external filter that also acts as a return port, and (1) vent tube for hydraulic oil expansion.

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 are 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.

PAINT

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

OPTIONS (X if to be included:)

- ☐ Brush Box
- ☐ Automated Spray Bar
- ☐ Manual Spray Bar
- ☐ Operator's Seat

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.