



SPECIFICATIONS FOR THE 70580 SUPER SEALCOATER 800 SKID MOUNTED SEALCOAT

6165 W. Detroit St. • Chandler AZ 85226
 +1 (800) 528-8242 • +1 (602) 276-0406 • FAX +1 (480) 961-0513
 www.crafco.com

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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. All qualified bidders must have and maintain a complete inventory of repair parts and have experienced factory-trained service personnel for this equipment.

	<u>Comply</u>	<u>Does Not Comply</u>
1. GENERAL		
A. This machine will be the manufacturer's current production model.	_____	_____
B. The machine will be capable of starting at ambient temperature and be ready for operation in one half hour or less.	_____	_____
2. SKID FRAME		
A. This machine shall be skid mount.	_____	_____
B. 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.	_____	_____
C. 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.	_____	_____
D. 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.	_____	_____
E. Other _____	_____	_____
3. AIR COMPRESSOR UNIT		
A. This machine shall be equipped with an air compressor unit that will be used to power all the machine functions.	_____	_____
B. The air compressor unit will consist of a 13 HP gas engine with electric start, a 20 CFM pump, and a 30 gallon air tank.	_____	_____
C. Other _____	_____	_____
4. MATERIAL TANK		

	<u>Comply</u>	<u>Does Not Comply</u>
A. 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).	_____	_____
B. The tank skin is to be made of 10 Gauge; 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.	_____	_____
C. The material tank will have a hydraulically driven full sweeping horizontal three paddle agitator. This feature will ensure that the material remains in complete suspension.	_____	_____
D. The agitation system is chain driven from the hydraulic motor with a sprocket reduction to the agitator.	_____	_____
E. The agitator shall rotate in either direction with infinite speed control.	_____	_____
F. The agitator will be equipped with rubber wipers on the end of each paddle.	_____	_____
G. The material tank will have an opening to load material; it will be centered on the top of the tank.	_____	_____
H. 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.	_____	_____
I. The hatch shall include an inner splash lid and grating with a serrated piece to open sandbags.	_____	_____
J. There will also be a screw down locking knob to secure the lid during transport.	_____	_____
K. Other _____ _____	_____	_____

5. MATERIAL SYSTEM

A. The material piping will be constructed of 2 inch Sch. 40 steel pipe and 2 inch rubber hose.	_____	_____
B. The material will be drawn off the bottom, rear of the material tank using an air operated pump.	_____	_____
C. 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.	_____	_____
D. The strainer basket will be 6 inch (15.24 cm) O.D. by 7 inch (17.78 cm) long.	_____	_____

	<u>Comply</u>	<u>Does Not Comply</u>
E. Connected to the strainer box will be a 2 inch (5.1 cm) air diaphragm pump.	_____	_____
F. 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).	_____	_____
G. Other _____ _____	_____	_____

6. HOSE REEL, APPLICATION HOSE AND HAND WAND

A. The hose reel shall be a manual winding hose reel and have the capacity to store 100 feet (30.5 m) of 3/4 inch (1.9cm) hose.	_____	_____
B. The application hose shall be an abrasion resistant 3/4 inch (1.9 cm) hose that is 100 feet (30.5 m) in length with swivel fittings on each end.	_____	_____
C. The hand wand shall be constructed of a 3/4 inch ball valve, a 3/4 inch x 72 inch (182.9 cm) long aluminum pipe body, a 3/4 inch 90° elbow, a 3/4 inch to 1/4 inch bushing, and a 80/50 flat spray nozzle.	_____	_____
D. Other _____ _____	_____	_____

7. HYDRAULIC TANK

A. 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).	_____	_____
B. 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.	_____	_____
C. Other _____ _____	_____	_____

8. HYDRAULIC SYSTEM

A. 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.	_____	_____
B. The hydraulic pump shall be coupled and driven off the engine on the air compressor unit.	_____	_____
C. The hydraulic control valve will allow for infinite speed control in both the clockwise and counterclockwise direction.	_____	_____

	<u>Comply</u>	<u>Does Not Comply</u>
D. The components will be connected together with (1) suction hose that is rated at 300 psi, all other hoses are rated at 3000 psi.	_____	_____
E. Other _____ _____	_____	_____

9. WATER FLUSH

A. The system is equipped with a 1" pipe thread port that can be connected to an external water source located at the storage/maintenance facility that the unit is stored or serviced at. Unit may also be retrofitted with an optional on board water flush system.	_____	_____
B. Other _____ _____	_____	_____

10. PAINT

A. All painted surfaces shall be painted with a direct to metal single stage polyurethane enamel paint.	_____	_____
B. Other _____ _____	_____	_____

11. TRAINING

A. 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.	_____	_____
B. Other _____ _____	_____	_____

12. SAFETY AND TRAINING MANUALS

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

A. 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.	_____	_____
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14. WARRANTY

A. The manufacturer shall warranty the equipment for two years or as otherwise noted in the manufacturer's standard warranty policy.	_____	_____
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OPTIONS (X if to be included:)

- 70210 - Brush Box
- 70331K - Automated Spray Bar
- 70330K - Manual Spray Bar
- 70353 - Operator's Seat w/ Seat Belt
- 70309 - On Board Water Flush System

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.