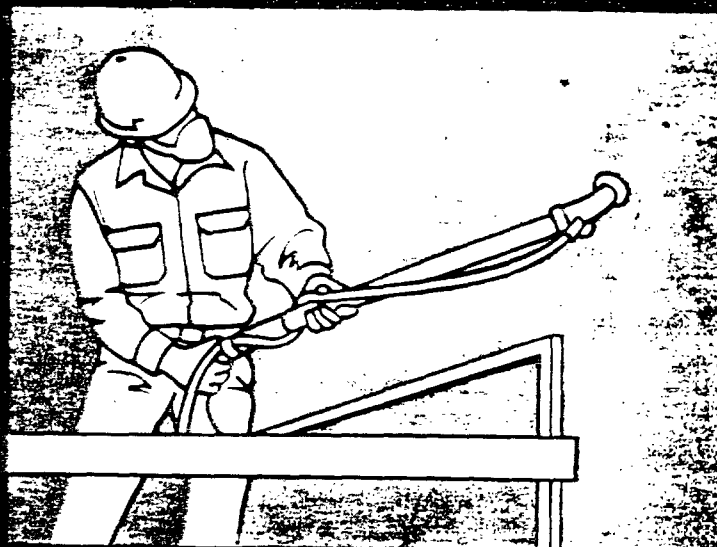


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PLAINTIFF'S
EXHIBIT

WRG-93



Monokote[®]

Equipment and Efficient Application Procedures

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The information contained within this brochure has been generated by fireproofing applicators for the specific purpose of maximizing profit potential through improvements in both equipment and methods of installation.

Over the last decade fireproofing contractors have continued to improve, fine-tune and upgrade their operations. These improvements have resulted in higher pumping rates, lower pumping pressures, more efficient application equipment and higher profits when applying Monokote.

This sixth revision to the **Monokote Equipment and Efficient Application Procedures** manual attempts to incorporate more than 10 years' worth of ideas into one place for the specific purpose of keeping production up and costs down.

Before starting your next job, review the contents of this manual, compare its recommendations to your present job set-up, then upgrade wherever possible.

Keep in mind that no single improvement will have a significant effect on your operation, but the combination of various recommendations can result in a more efficient and, therefore, more profitable job.

Our joint efforts will help keep sprayed plaster fireproofing a viable and profitable business for the plastering industry.

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Figure 3. Schematic Work Diagram

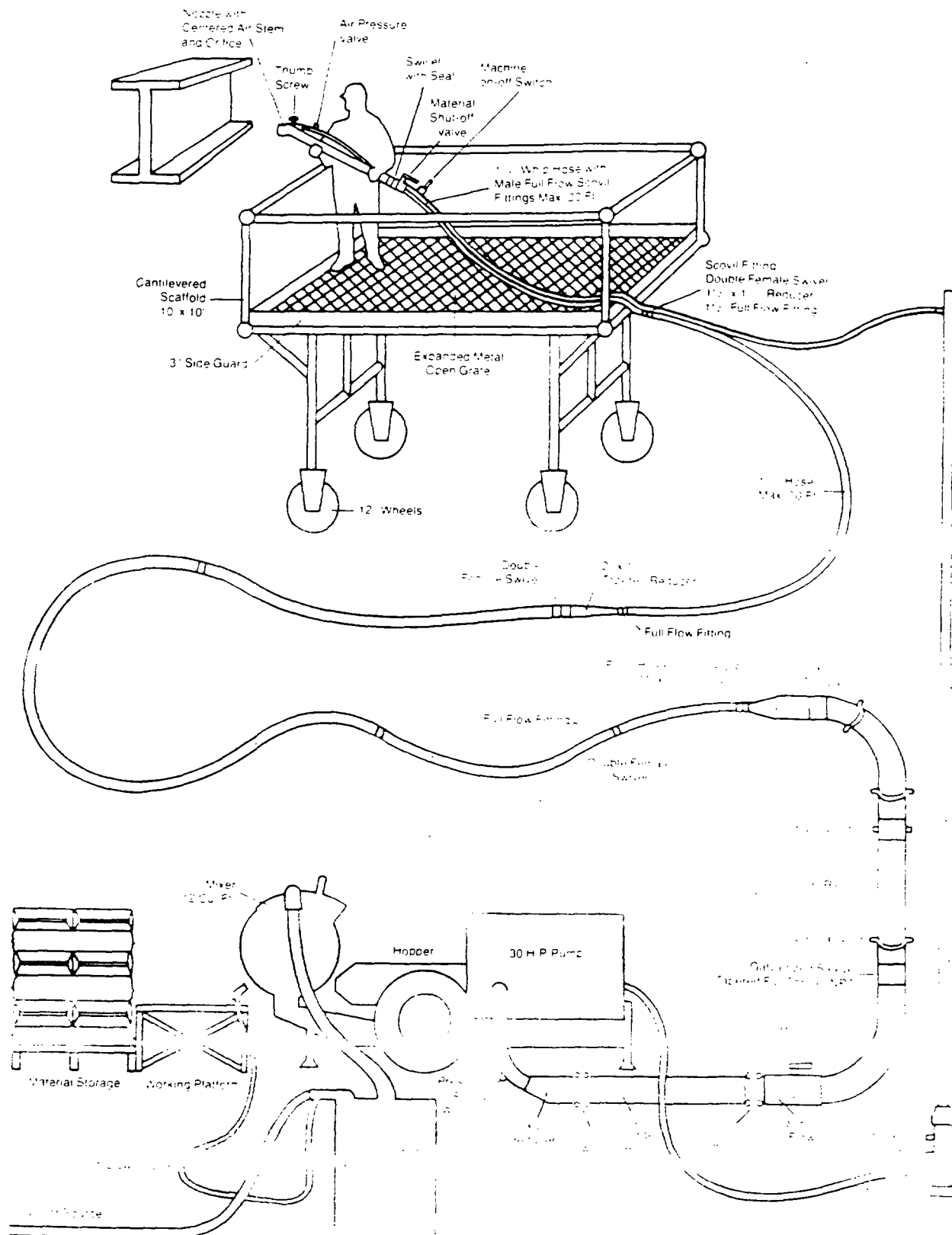
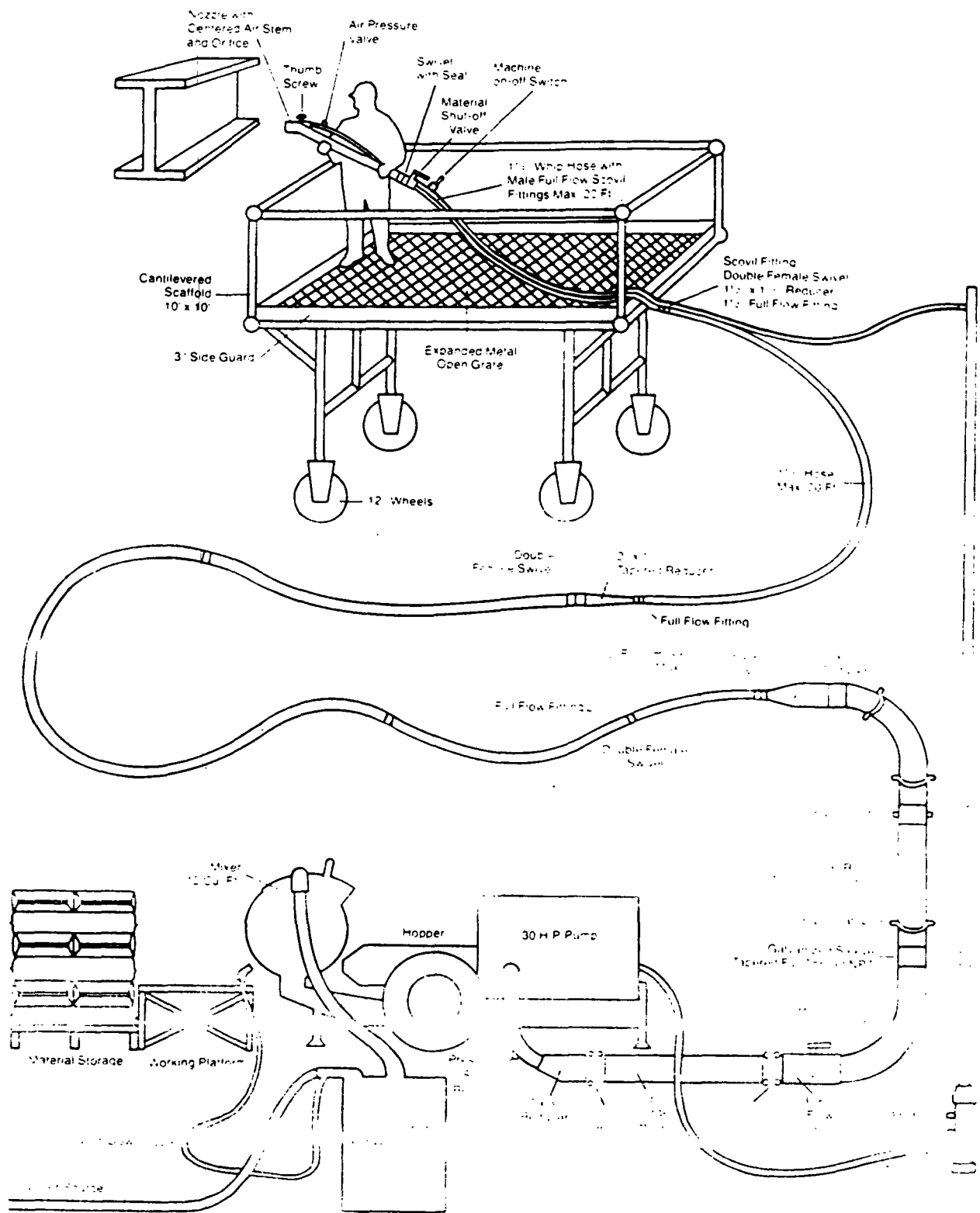


Figure 3. Schematic Work Diagram



3. If a drain is used, several minutes of clean water should clear the nozzle before the pump is shut off. Then close the ball valve and disconnect the surge hose from the pump. Securely anchor it to a suitable drain. Reopen the valve and back flush the system as quickly as possible. **Caution: The surge hose must be securely anchored to prevent violent whipping action during back flushing.**

4. If no drain pipe is available, dirty water is collected on the spray floor in a 55 gallon drum. When clear water reaches the nozzle it should be collected in a second drum. When the second drum is nearly full, shut off the pump and remove the nozzle. Place the end of the scaffold hose in the first drum of dirty water. Close the ball valve, connect the surge hose to a suitable drain, and reopen the ball valve. The dirty water will be sucked back down through the system, emptying the first drum. As the water level approaches the bottom of the drum quickly transfer the hose to the drum of clean water. This water is sucked down, purging the entire system of old material and dirty water.

5. Never leave water in the pipes overnight. Small amounts of material settle out in elbows and other low areas. This material sets overnight, causing blockage and restrictions the following day.

6. Back flushing can be aided by connecting an air source to the whip hose and forcing the water back through the system. The increased speed of back flushing aids in dislodging any remaining material. When back flushing, securely anchor the surge hose. Air is compressible, and will cause a strong whipping action at the hose opening. Work crews should keep clear of the surge hose during back flushing.

7. The only time you should add retarder to your pumping operation is A) in the water used to prime the pump in the morning (this will minimize the potential for flash sets due to material build-up in hoses and fittings) and B) in the wash out water at night. It should not be necessary to add retarder to Monokote on the job site and is not recommended!

VI. Cold Weather Application

During winter, we occasionally receive bond strength complaints due to delamination of the fireproofing typically from the steel floor or roof deck.

Three reasons why these problems occur in the winter time are:

1. Steel temperature at the interface of Monokote and the steel deck may be at or below freezing. Steel deck exposed to a 10°F temperature overnight may take up to 24 hours to reach 40°F.
2. Increased drying time. Air absorbs and retains moisture in direct relation to the temperature. The lower the temperature, the smaller the quantity of water that can be absorbed by a given volume of air.

3. Lack of adequate ventilation. Once the air becomes saturated the drying process stops until the saturated air is removed and replaced with fresh, warm, dry air.

Based on this information our present Monokote application instructions are:

- An air and substrate temperature of 40°F (4°C) must be maintained for 24 hours before and after application of the fireproofing or until adequate drying has occurred. This will depend on job conditions and air temperatures.
- Provisions shall be made for ventilation to properly dry the fireproofing after application. In an enclosed area lacking natural ventilation forced air circulation and drying conditions should be provided.

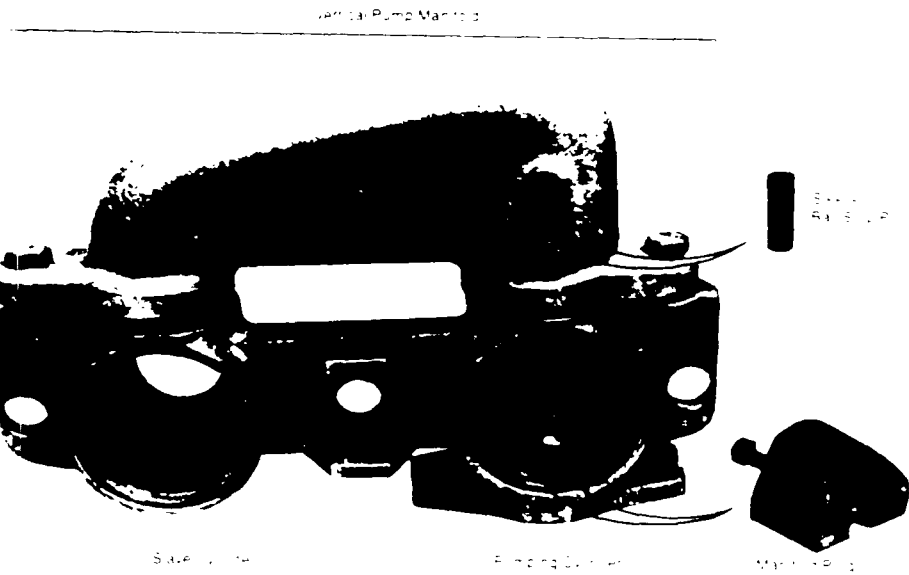
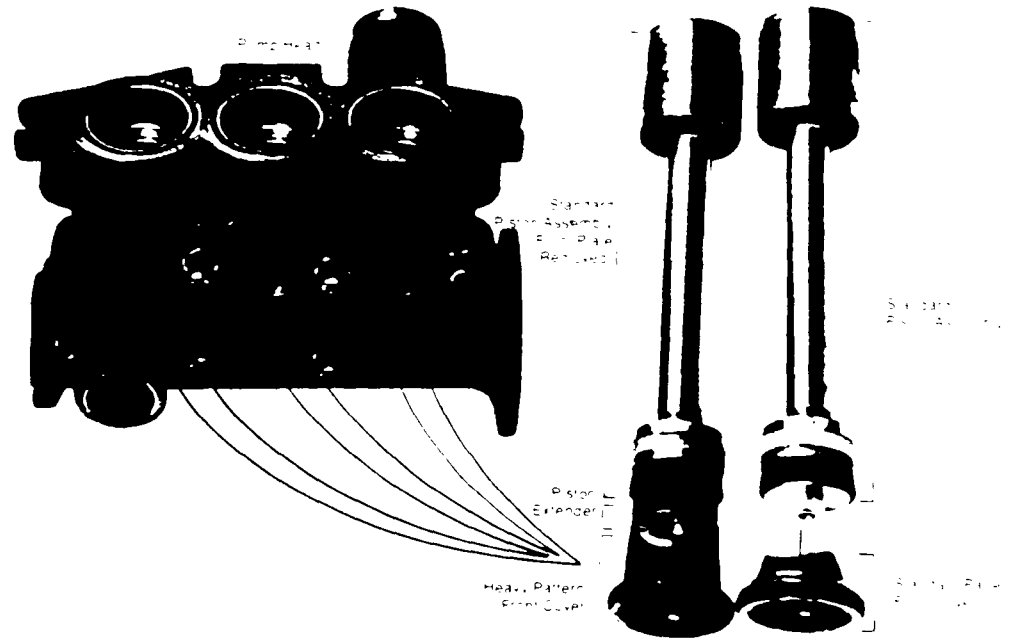
VII. Job Records and Meeting Production Quotas

Experience is one of the best teachers and the best way to improve on experience is to record it. A close count by the mixer man and foreman — noting each day's production and floor change — is invaluable in checking and improving production rates and quantity usage. Keep a permanent log; it will tell you each day if you're winning or losing.

Determine the actual pumping rate by timing several

consecutive batches at the mixer. Estimate production and set realistic average daily production quotas. Pumping rates that vary from 100 to 300 bags per day, with averages of less than 200 are often indicators that strong, constructive on-site management is needed. With close contractor coordination and effective crew management most Monokote jobs average in excess of 200 bags per day.

Figure 2. High Production Conversion Kits



d. Air pressure at the nozzle breaks up the stream of prepropping material so that it can be accurately placed. **Do not use air to "blast" the material to the steel.** This practice greatly reduces yield. For maximum yield, air pressure should be as low as possible, consistent with an adequate spray pattern.

e. The rubber cap on the gun head is designed to blow off if there is a nozzle blockage. This is a safety feature and should not be circumvented by tightly wiring the cap to the gun. The rubber cap may be connected to the head of the gun with very loose wire. This prevents loss of the cap if blockage occurs.

E. Scaffold

A rolling scaffold must be built to provide stability and safety to the nozzle man. It should be easy to clean and move.

Any strong, lightweight scaffolding may be used provided the following are incorporated:

1. Wheels should be 8-12 inch diameter for smooth, easy movement so that spraying can continue without interruption.
2. Floor should be of the open grate type; expanded aluminum lath is ideal. This permits material to fall through the walking surface and prevents buildup of a slippery layer underfoot. Plywood or wood planks are poor surfaces and inhibit smooth job operation.
3. 3 inch side guards should be placed around the edge of the scaffold floor to prevent the scaffold nose from slipping off the edge.
4. Guard rails should be placed waist high and firmly

anchored. These act as a positive stop so that the man doesn't have to watch the edge while spraying.

5. Adding a 3 foot cantilevered section to the end of a 10 foot x 10 foot scaffold makes it possible to spray the beams on the floor. This additional section should be spraying some cuts or beams in the beams.

6. Putlogs as long as 22 feet are very effective on cantilevered scaffold length, permitting easy access to exterior spanure beams and exterior columns.

F. Tarps

Tarping material must conform to local code and local conditions. For summer use, tarps constructed of coarse fiberglass screen are available. These permit good ventilation and promote early drying and strength development. In some areas, a different material may be required, such as plastic or waxed cloth.

G. Communication

Whenever the nozzle is out of sight of the pump man, type of communication is essential to coordinate the pump and sprayer. Walkie-talkies, telephones or flag system on sight are valuable tools. In some areas, a telephone company will install a phone for a small fee. Care should be taken to select a walkie-talkie because job equipment and steel construction may interfere with some makes.

Variable speed controls may be added to pumps such as Essick TM-30 and the Thomsen A-375. This permits the spray man to adjust pump speed from the nozzle while spraying.

III. Pump Station Setup

The entire working and storage area should be covered and protected from weather whenever possible.

A. Pump Placement

Place the pump as close as possible to the 3 inch diameter standpipe. This permits a short surge hose to be utilized. It is very important that the ground be high enough to permit wash water to drain away from the pump base.

B. Mixer

Place the mixer above the pump hopper. It should be high enough to permit full rotation to the complete dump position.

C. Working Platform

1. Build a platform directly behind the mixer so that the mixer man's waist is level with the top edge of the mixer. It should be large enough to hold at least 20

bags of Monokote. Extend the platform on the side of the mixer permits the mixer man to mix the mix and keep the nozzle clean.

2. The storage area should be large enough to hold 600-1000 bags of Monokote or a trailer approximately 45 feet long.

3. The storage area must be dry, and must be protected from rain and/or construction water. It must be stored to prevent any contact with the floor.

4. Pallets make excellent storage bases. When Monokote on unprotected ground, a layer of pallets should be placed under pallets and a second layer stacked bags. This prevents ground moisture from damaging the lowest level of bags. The storage area should be immediately adjacent to the working platform.

5. Keep an inventory of at least one day's supply of Monokote to cover any unexpected delivery delays.

D. Multiple Pump Setups

On large jobs, a roller conveyor helps to feed material out of a van and down a line of mixers. Three pumps

can use as much as 1,000 bags per day. With good equipment and organization, one mixer man can handle two mixer pump setups.

IV. Mixing Procedure

A uniform mix consistency is essential to maintain a high production mixing/pumping operation. To obtain the proper density (see mixing instructions on the back of the bag) follow this procedure:

1. Set mixer speed between 30-40 RPM
2. With blades turning, add water (approximately 28-32 gallons/3 bag batch)
3. Turn mixer off and clean mixer blades
4. Add two bags of Monokote
5. Restart mixer, add a third bag and mix for approximately 30 seconds. The mix will initially look dry and will gradually "cream out." The mix is usually correct if it is stopped just as the "grainy" look begins to disappear.
6. Stop mixer and check the material for density. If not within the recommended tolerance stated on the back of the bag, restart mixer and adjust density by varying the mixing time, amount of mixing water and/or speed of the blades (a longer mixing time or increased mixing speed will lower the density level; additional water will increase the mixer density). Once a mixing procedure is determined, subsequent mixes will give similar results and this step need not be repeated.
7. Restart mixer (3-5 seconds) then dump entire batch into the pump hopper. The mixer must empty completely when dumped to avoid leaving any old mix to be re-worked in the succeeding batch.

Notes

1. Occasionally scrape the inside walls of the pump hopper.
2. Wait until enough material has been dumped into the hopper to allow sufficient room for the addition of an entire new batch from the mixer.
3. If the pump hopper will not take an entire batch, stop the mixer until the remaining material will fit. Restart the mixer for 2 to 3 seconds and pump the remaining material.
4. Do not let the pump suck air.
5. For maximum yield and minimal back pressure, use as much water as possible, consistent with proper hangability. The water ratio is correct when no more than 5/8 inch of Monokote can be hung in one pass on bare flat steel. This will allow approximately 10 mph build-up on beam flanges.

V. Start Up and Shut Down

A. Start Up

1. Nozzle should be detached from the whip hose at the swivel or nozzle shut-off valve.
2. Add about ten gallons of slightly retarded water to the mixer with the blades turning. Then dump water into the pump hopper.
3. Prepare the first Monokote mix and start the pump. Dump mix into the pump hopper when the last of the retarded water enters the pump intake.
4. Continue pumping until a small amount of Monokote appears at the end of the open hose. Connect nozzle and start production.

B. Shut Down Procedure

Thorough wash out is necessary to prevent material from setting and accumulating in elbows and at unions.

1. After the last mix has cleared the hopper, the pump should be slowed and heavily retarded water pumped through the system. A sponge can also be pumped through the system. If a sponge is to be used, the whip hose and hose reducers must first be flushed and disconnected. A large sponge could plug the system when reaching this area.
2. Dirty water can be pumped into a drain pipe or collected in a 55 gallon drum on the floor.

Figure 1. Dust Control for Plaster Mixers



Ready



During Mix



Dumping



Waiting

One version of this meter can be pre-set to shut off automatically when a predetermined number of gallons has been delivered. Where low pressure is a problem, install a small centrifugal pump in the line of the meter. This boosts water pressure and flow rate.

3. Quick Fill Tanks

Quick fill tanks must hold at least 36 gallons of water and should be equipped with inlet shutoffs for accurate water measurements. Inlet water must be shut off while the tank is dumping. Recovery rate of this system is often slow and depends upon inlet water pressure and hose diameter. Precise water measurement is difficult.

4. The "5-Gallon Bucket" Method

This method is not recommended. Usually the mixer man tires early in the day resulting in a reduced production rate and inconsistent mix uniformity.

The area around the mixer often becomes a mud hole due to spilled or overflowed water resulting in damage to surrounding material. **Again, this method is specifically NOT recommended.**

D. Conveying Equipment

High production with minimal buildup of dust material can only be assured in a clean, smooth, well-designed system. Drag should be minimized by the elimination of all unnecessary restrictions and bends. Hose, pipe, and fittings must be of a type that will help prevent ledges for material buildup. For distance or height, smooth-walled, 3-inch aluminum pipe is a good choice.

All conveying equipment should be checked regularly for excess wear or deterioration. Conveying equipment should be installed in the following order (see Figure 3): pump/manifold → safety pressure relief valve → tapered reducer → 3-inch x 1/2-inch nose → 3-inch ball valve → 3-inch x 1/2-inch aluminum conduit → 3-inch x 2-inch reducer → floor nose → tapered reducer → whip nose → swivel → material shut-off valve → spray gun → orifice (1/8" or 3/16" dia.). When setting up, check for leaks by pumping water through the system. Teflon tape or pipe dope on all threaded unions helps seal the system, prevent corrosive lock-up and prevent damage to aluminum threads.

1. Safety/Pressure Release Valve

The ball and seat should be checked and cleaned regularly. The release pressure should be adjusted according to pump manufacturer's recommendations and should be consistent with rated working pressures of other equipment in the system.

2. Bell Reducers (2" x 3") (1½" x 2") (1½" x 1¼")

Bell reducers must be of the conical tapered type with external male threads. This allows the use of female sleeves and/or female swivel fittings. Galvanized reducers are widely used without problems. **Black iron plumbing fittings are unacceptable because severe material buildup often occurs, restricting material flow and causing premature material set.**

3. Surge Hose

The surge hose should be 3 inch (minimum 1,000 PSI working pressure) wire-braided hose. Connect hose directly to the reducer on the pump with ground boss spud and fitting held with a bolt-on clamp. Surge hose should be as short as possible (approximately 25 feet).

4. Ball Valve

A 3 inch (approximately 2¾ inches full flow) stainless ball valve should be used to permit unrestricted flow of material from the surge hose into the aluminum pipe.

5. Elbow

Elbows should be long radius 3 inch inside diameter rigid aluminum pipe with no angle less than 90 degrees. The inside diameter of the elbow should be the same as the standpipe.

6. Standpipe

a. 3 inch rigid aluminum pipe is the only pipe recommended for Monokote application.

b. Tight, leak-free pipe unions may be obtained by using full-taper threaded galvanized steel pipe couplings; ground unions; or victaulic couplings to join the 10 foot lengths of pipe. **Do not use standard, straight-thread conduit couplings often sold with electrical conduit. They will leak.**

c. Vertical and horizontal pipe must be well anchored and supported to prevent movement due to pump surge. Spot-weld clamps to beams and columns for secure attachment. Repeated flexing of aluminum pipe will cause metal fatigue and pipe breakage.

d. Horizontal pipe should be sloped so that wash out water drains freely and completely during back flushing.

7. Floor Hose

a. Rubber-reinforced 2 inch high-pressure fabric-braided plaster hose with full flow fittings which present as little restriction as possible to material flow should be used.

b. Pressure-rated fittings should be compatible with rated hose pressure and should be checked regularly for wear or damage. A double female swivel victaulic coupling or other device is recommended to aid in making and breaking hose junctions without twisting the entire hose.

c. Total floor hose should not exceed 1250 feet.

8. Whip Hose

The whip hose may be 1½ inches or 1¼ inches diameter, lightweight braided hose fitted with full flow fittings. A combination of 25 feet of 1½ inch diameter hose with 17 feet of 1¼ inch diameter hose is strongly recommended. The whip should be well anchored to the edge of the scaffold. **Length of 1¼ inch whip should not exceed 20 feet. The total whip (if 1½ inch and 1¼ inch hose are used) should not exceed 50 ft.**

9. Gun

a. When using a scaffold, the gun length should be as short as possible. Closeness to the work keeps waste to a minimum.

b. The gun may be swivel mounted directly to a 15 foot 1¼ inch lightweight whip hose. The nozzle can then be hand-held and moved with a pivoting action. This method permits very accurate placement of the fireproofing and is excellent in cramped spaces where the standard gun is too cumbersome.

c. Pole guns should be used with caution. Three major areas of concern are overspray, in excess control and proper application to the tops of the bottom flanges of beams. Though not recommended a special gun with a crook in the shaft which aims the nozzle down on the top of the bottom flange has been used with some success. With this method two passes are made. Use the special bent nozzle to do all top flanges in a given area. Make a second pass with the standard nozzle. If necessary to finish the work, make a third pass using a scaffold and standard short reach spray gun. Increased material usage rate must be closely monitored and balanced against any labor savings.

d. Lightweight nozzle-shutoff ball valves are now available which significantly reduce overspray and waste. **When nozzle shutoffs are used, be extremely careful not to start the machine with the valve closed. The machine on/off switch should be located at the nozzle and must be in perfect working order.**

10. Nozzle and Spray Adjustments

a. The nozzle should have a recessed seat in which the orifice is centered. A 1½ inch orifice is recommended for most applications. The higher the production rate, the larger the required orifice.

b. An air control valve and movable air stem are absolutely essential. The air stem must be thoroughly cleaned and greased daily to prevent freeze-up.

c. The air stem and orifice must be perfectly centered in the nozzle. The air stem is held in place with a thumb screw. It must be easily adjustable during full operation of the system. The stem should be as far back as possible, consistent with a good fanning action. Proper combination of air pressure and stem position will create a low frequency buzzing sound. A high frequency pitch indicates improper adjustment.

I. Site and Project Planning

Pre-setup Planning

1. Review the specifications and drawings and be sure the general contractor and inspectors have the same interpretation as you do.
2. Arrange with the general contractor's representative to meet and walk the site to establish the location of your permanent pumping station.
 - a. Select a primary and an alternative setup location. Where possible, pump up the outside or through the core of the building from a single site. During the winter, the core will provide some heat and help prevent line freeze-up.
 - b. Be sure of adequate space for unloading and handling of material for the duration of the job. Space and access routes often change as the project progresses.
 - c. Find a water source with adequate volume and pressure. Also check on washout procedure and local water regulations. For example, a settling tank may be required.
3. Determine if any protection for interior surfaces is required.
4. Check to see if tarps are necessary for overspray protection outside the building.
5. With the general contractor, carefully plan the means for maintaining proper temperature and

ventilation for your phase of the work in all weather conditions.

6. Be certain steel and concrete are reasonably clean for proper Monokote application. Remove loose rust or mill scale with a burlap rag, heavy brush, or high pressure compressed air. Oil on steel or concrete should be removed with trisodium phosphate or other cleaners. On concrete, check closely for form oils and curing compounds.

7. Arrange your application schedule with the job superintendent.

a. Insist that you be on the floor as soon as the concrete is poured but before plumbing and sheet metal work have begun.

Working around obstacles such as stacked wall board, pipes and hanging ducts can cut your application rate in half and drastically increase labor costs and material waste.

b. When fireproofing steel roof decks, the roof system (insulation and membrane) must be complete and watertight. All roof traffic must be prohibited during and after Monokote application until the fireproofing has dried and full bond strength is attained.

Items 7a & 7b should be included in your bid and production commitment. Tell the superintendent that clear work areas mean you will be out of his way a lot faster.

II. Mixer, Delivery & Application Equipment

Select a pump with a production capacity well above the desired daily average. Large 30 HP pumps have performed at heights in excess of 50 stories.

The delivery system greatly affects pumping rate. Study the conveying equipment and system information in section IID and in Figure 3 at the back of this manual.

Establish a routine preventive maintenance program on all equipment.

1. Pressure release valves should be kept clean and in good working order.
2. Any equipment abnormality — such as a new noise, uneven surge, etc. — should be checked immediately. Waiting until something malfunctions could result in a system plugged with set material.
3. Install time clocks to measure machine running time. These provide an accurate gauge on which to base routine maintenance and evaluate labor efficiency.

The single most important development in the application of Monokote has been the introduction of high production conversion kits. These kits are available from Thomsen Equipment and from Essick Manufacturing Co. The principal benefit is the reduction of dead space at the end of the piston stroke. These kits (a) dramatically increase pumping rates, (b) make pumps less sensitive to overmixing, and (c) enable stiffer mixes to be pumped at higher rates. The latter enables thicker scratch coats, resulting in fewer passes.

Labor savings through increased pump efficiency will pay for the kits in a short time. Specific pumps and their corresponding conversion kits are discussed below.

A. Pumps

1. Essick TM-30

A very high volume pump which should be fitted with a high production conversion kit, 8-inch diameter high-production pulley, and urethane or steel balls.

The Essick TM-30 conversion kit (see Figure 2) consists of piston extenders and heavy pattern front covers which protrude into the cavity between the bail check valves. The new front covers have been adjusted to use the standard inlet bail stop pin while reducing inlet bail travel. After installing the conversion kit, remove the pump manifold and rotate the pump flywheel through one complete cycle to be sure that there are no installation errors. There must be clearance between the end of the piston extender and the tip of the inlet bail stop pin at the end of the piston stroke.

Caution: Due to increased efficiency, it will be necessary to slow the pump down to avoid overloading the nozzle. Do not over stiffen the mix, as excessive pressures and low yield will result.

The 8-inch pulley replaces the standard 10-inch pulley installed on the transmission output shaft. With the engine turning at a maximum (2 600 rpm), the 8-inch pulley turns the pump at approximately 130 rpm — a 40% increase over the standard 10-inch pulley.

Steel balls and special steel seats have been successfully substituted for the top three (3) balls and seats. Since the top seats are the pressure seats, continual replacement of urethane balls is eliminated.

Electric motors and diesel engines have also been successfully substituted for the standard 30 HP gas engines.

Production rates in excess of 1 bag/minute (420 bags/7 hours) are possible.

2. Thomsen A-3.75

The A-3.75 is another high volume pump which should be fitted with steel balls and a high production kit. Seat type must be that specified for use with steel balls (see Thomsen Bulletin #23).

The steel ball and seat assembly require much less maintenance and pump Monokote more efficiently than the corresponding plastic ball/seat combination. The Thomsen A-3.75 conversion kit (see Figure 2) consists of a plug for the manifold, the Thomsen Marvel and an upper bail stop pin that spreads the shock of the balls' impact over the entire length of the pin, reducing pin breakage.

The Marvel is installed by (1) removing the pump housing, (2) removing and discarding the lower bail stop (socket head cap screw and sleeve), (3) placing the plug in the housing with the flat surface down, (4) threading the bolt provided through the hole in the housing where the bail stop pin was removed, (5) tightening the bolt, and (6) remounting the pump manifold. With these modifications, the pump output often exceeds the advertised 33% increase and can approach 420 bags/7 hours.

Various Thomsen distributors have taken it upon themselves to modify the model A-3.75 pump with diesel engines, 3 inch manifolds, over-sized pistons and other improvements.

For specific information on the location of these distributors, contact your Zonolite sales representative.

3. Essick MG-30

This model is similar to a Thomsen A-3.75. Contact your Essick distributor for specific information.

B. Mixers

1. Choosing a Mixer

The mixer volume should exceed the volume of the pump hopper. Mixer speed should be adjustable and the clutch should permit frequent start/stop operation. Larger mixers will provide more versatility in operation.

The blades should scrape the sides clean. The use of twin screw blades provides excellent mixing, stirring, cutting and folding the material.

The mixer should rotate to empty completely, without dumped, leaving no material to be reworked in the succeeding batch.

Thomsen Model 110, Essick Models 120 and 150, and Muller Models 10 and 12CF are excellent for mixing Monokote and meet the above criteria. Rotation speeds between 30-40 RPM are most efficient in reaching proper density and mix consistency. Use rubber wiper blades where available.

2. Dust Control for Plaster Mixers

In order to control nuisance dust in plaster mixing areas, plaster mixers should be fitted with dust covers (Dust Covers (Patent No. 4 211 491) such as the one illustrated in Figure 1) have lowered dust levels in general mixing areas allowing men and equipment to perform in a cleaner, healthier environment. An added advantage is reduced engine maintenance resulting from cleaner air, gas and oil filters.

For more information on on job site operations with a dust cover, contact your local Zonolite sales representative.

C. Water Measuring Devices

The basic requirements of a metering system are speed of delivery and the ability to repeatedly deliver a pre-set amount of water. A wash down hose should always be used in conjunction with a water meter. This permits cleaning of the meter and the assurance of batch-to-batch mix consistency.

1. Timed Sump Pump Meters

Timed sump pump systems are the best water delivery methods available.

These systems utilize a timed electric sump pump to deliver approximately one gallon of water per second in pre-set quantities up to 50 gallons. A 55 gallon drum is used as a reservoir, storing water for the next batch while mixing and dumping proceed. This type of system is especially advantageous with low water pressures and low rates.

2. Neptune Water Meters

For accurate water measuring and high speed operation a high pressure water source should be used. A large diameter water supply hose connected directly to the meter will increase water delivery rate.

Monokote[®]

Equipment and Efficient Application Procedures

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The information contained within this brochure has been generated by fireproofing applicators for the specific purpose of maximizing profit potential through improvements in both equipment and methods of installation.

Over the last decade fireproofing contractors have continued to improve, fine-tune and upgrade their operations. These improvements have resulted in higher pumping rates, lower pumping pressures, more efficient application equipment and higher profits when applying Monokote.

This sixth revision to the **Monokote Equipment and Efficient Application Procedures** manual attempts to incorporate more than 10 years' worth of ideas into one place for the specific purpose of keeping production up and costs down.

Before starting your next job, review the contents of this manual, compare its recommendations to your present job set-up, then upgrade wherever possible.

Keep in mind that no single improvement will have a significant effect on your operation, but the combination of various recommendations can result in a more efficient and, therefore, more profitable job.

Our joint efforts will help keep sprayed plaster fireproofing a viable and profitable business for the plastering industry.