

## SELECTION & SPECIFICATION DATA

<b>Description</b>	Accelerator A-20 is a powder mixed with water and injected into gypsum based fireproofing materials to reduce the set time and increase production rates. Accelerator A-20 can be used with Southwest Type 5 materials.
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## MIXING & THINNING

<b>Mixing</b>	<p><b>CAUTION:</b> The Accelerator A-20 solution is acidic and can irritate or injure skin, eyes and lungs. All personnel should wear proper protection when mixing or spraying with Accelerator A-20. Glove, coveralls, respirator and goggles are required to avoid injury. Avoid contact to bare skin. The fumes from the Accelerator A-20 solution are irritating. Review Accelerator A-20 MSDS prior to use. Mix one 50 lbs. bag of Accelerator A-20 with 10.0 gallons of clean potable water. The standard mix is four bags of Accelerator A-20 with 40 gallons of water. The total solution volume will be 51 gallons. Continue mixing until Accelerator A-20 powder is dissolved completely. A longer mix time will be required to dissolve Accelerator A-20 in colder temperatures. After mixing, allow bubbles to come out of the solution.</p>
<b>Set up</b>	<p>Open valve at base of tank to allow solution to flow to the injector pump. Close valve to injection hose. Open bypass valve and turn on injector pump to re-circulate Accelerator A-20 solution back into the mixing tank for 5 minutes. The Accelerator A-20 solution concentration can be checked with a hydrometer or by weight of a known volume. By hydrometer measurement, the target specific gravity is 1.245 with range of 1.235 to 1.255. To check by net weight of a filled container, a full 1 liter container should weigh 1245 grams <math>\pm</math> 10 grams.</p> <p>Next, fill the alum hose with solution. Close the valve on the end of the hose near the injection housing. Close the bypass valve and open the injector pump valve to alum hose. With the end of the alum hose going back into the mixing tank, open the valve to allow solution to flow through the hose. Continue pumping back into the tank until all air bubbles are out of the solution. Using the injector knob, turn the knob out to decrease the solution percentage and turn the knob in to increase the solution percentage to be injected.</p>

## APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

<b>Pump</b>	Use an alum injection pump with a minimum 600 psi pressure capacity. Contact Carboline technical service for more information. Use 55 gallon plastic drum(s) with 110 volt electric mixer for each drum.
<b>Valves</b>	A backflow valve must be used at the injection point to prevent the Accelerator A-20 from dripping and setting up the material in the off position. The flow of Accelerator A-20 must be turned off and flushed out of conveyance line before stopping the conveyance pump.
<b>Material Hose</b>	3/8" hose set up with the backflow valve and an injection module placed at 25 foot back from the nozzle. A 15 foot 3/4" I.D. material whip hose can be used.
<b>Nozzle/Gun</b>	Use a minimum 1" I.D. plaster type nozzle with shut off valve, swivel and air shut off valve.
<b>Orifice Size and Shields</b>	9/16 to 5/8" I.D. minimum. Use mini-shields or super-shields depending on project conditions.

# Accelerator A-20

## PRODUCT DATA SHEET



### APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	40°F (4°C)	40°F (4°C)	40°F (4°C)	0%

Air and substrate temperatures shall be 40°F minimum, and shall be maintained 24 hours before, during and for 24 hours after spraying occurs.

### CURING SCHEDULE

Surface Temp.	Dry to Recoat	Final Cure
70°F (21°C)	20 Minutes	28 Days

Newly installed Southwest Type 5 materials must be protected from rain and running water for 24 hours. Injected material will have reduced set time, and will be ready to recoat in 15-20 minutes at 70°F. Colder temperatures will require more time. Material must be set and firm before receiving the next coat. Material requires 28 days to reach full cure.

### CLEANUP & SAFETY

<b>Cleanup</b>	Pump, mixer and hoses should be cleaned with potable water. Cured overspray material may be difficult to remove and may require chipping or scraping to remove. Read and abide by the MSDS. Do not breathe dust. Use OSHA approved dust mask. Safety goggles or glasses should be worn.
<b>Safety</b>	For eye contact, flush with copious amount of water in accordance with OSHA instructions. Wash skin with clean water to prevent irritation. Follow equipment manufacturers' recommendations regarding safety and maintenance.
<b>Overspray</b>	Adjacent surfaces shall be protected from damage and overspray. Sprayed fireproofing materials may be difficult to remove from surfaces and may cause damage to architectural finishes.
<b>Ventilation</b>	Ventilation in enclosed areas is very important, to assist products to set and dry properly. Total air exchange should be at least 4 times per hour.

### PACKAGING, HANDLING & STORAGE

<b>Packaging</b>	50 lbs. bags
<b>Shelf Life</b>	24 months
<b>Storage</b>	Material should be kept dry, covered, and off the ground between -20°F to 150°F (-29°C to 66°C).
<b>Shipping Weight (Approximate)</b>	Bag Weight is 50 lbs (22.7 kg)

### WARRANTY

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