

SELECTION & SPECIFICATION DATA

Description	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. Also, Accelerator A-20 can be injected into portland cement-based fireproofing materials to reduce the set time. Accelerator A-20 can be used with Southwest Type 5GP, 5MD and 7GP materials.
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MIXING & THINNING

Mixing	<p>CAUTION: 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. Gloves, 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 SDS prior to use. When injecting Southwest Type 5GP or Southwest Type 5MD to achieve a 15 lbs. per cubic foot density (pcf), the standard mix is one 50 lbs. bag of Accelerator A-20 with 8.5 gallons of clean potable water, or four bags of Accelerator A-20 with 34 gallons of water. The total solution volume will be 46 gallons. When injecting Southwest Type 5MD to achieve a 22 lbs. per cubic foot density (pcf), the standard mix is one 50 lbs. bag of Accelerator A-20 with 12.5 gallons of clean potable water, or three bags of Accelerator A-20 with 37.5 gallons of water. The total solution volume will be 45 gallons. When injecting Southwest Type 7GP to decrease the set time, the standard mix is one 50 lbs. bag of Accelerator A-20 with 8.5 gallons of clean potable water, or four bags of Accelerator A-20 with 34 gallons of water. The total solution volume will be 46 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> <p>When injecting Southwest Type 5MD to achieve a 22 lbs. per cubic foot density, a more dilute mixture of 12.5 gallons of water per 50 lbs. bag of Accelerator A-20 is used. Refer to the Southwest Type 5MD application procedures for detailed procedures.</p>
Set up	<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, please refer to the Southwest Type 5GP, Southwest Type 5MD or Southwest Type 7GP simplified yield charts for target specific gravity.</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. Adjust the injector knob to increase or decrease the flow rate of the Accelerator A-20 solution to be injected. Refer to the Southwest Type 5GP, Southwest Type 5MD and Southwest Type 7GP application procedures to set the injection flow rate to the level required to achieve the desired density.</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.

Pump	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.
Valves	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.

Accelerator A-20

PRODUCT DATA SHEET



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Material Hose | 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.

Nozzle/Gun | Use a minimum 1" I.D. plaster type nozzle with shut off valve, swivel and air shut off valve.

Orifice Size and Shields | 9/16" to 5/8" I.D. minimum. Use mini-shields or super-shields depending on project conditions.

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

Cleanup | Pump, mixer and hoses should be flushed with potable water. Cured overspray material may be difficult to remove and may require chipping or scraping to remove. Read and abide by the SDS. Do not breathe dust. Use OSHA approved dust mask. Safety goggles or glasses should be worn.

Safety | 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.

Overspray | 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.

Ventilation | 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

Packaging | 50 lbs. bags

Shelf Life | 24 months

Storage | Material should be kept dry, covered, and off the ground between -20°F to 150°F (-29°C to 66°C).

Shipping Weight (Approximate) | Bag Weight is 50 lbs (22.7 kg)



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PRODUCT DATA SHEET

WARRANTY

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Carboline Company to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Carboline quality control. We assume no responsibility for coverage, performance, injuries or damages resulting from use. Carbolines sole obligation, if any, is to replace or refund the purchase price of the Carboline product(s) proven to be defective, at Carbolines option. Carboline shall not be liable for any loss or damage. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY CARBOLINE, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. All of the trademarks referenced above are the property of Carboline International Corporation unless otherwise indicated.