



CEMENTITIOUS FIREPROOFING PRODUCTS

ACCELERATOR A-20 – FAST SET ADDITIVE

1. PRODUCT DATA

- 1.1 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 SW Type 5GP, SW Type 5MD and SW Type 5AR products.

2. MIXING PROCEDURES

- 2.1 Mix one 50 lbs. bag of Accelerator A-20 with 10 gallons of clean potable water.
- 2.2 Mix product for approximately 10 minutes, until solution is uniform. Agitate occasionally, to prevent settling of ingredients.
- 2.3 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.

3. APPLICATION

- 3.1 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.
- 3.2 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.
- 3.3 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.
- 3.4 Set Up: 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 \pm 10 grams.
- 3.5 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.
- 3.4 Accelerator will rapidly set SW Type 5 products and increase production rates and will allow material to be recoated in 20 minutes at 70°F.

5. CAUTIONS

- 5.1 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.
- 5.2 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.
- 5.3 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.st
- 5.4 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.