



# SOUTHWEST TYPE 7GP™

## SIMPLIFIED YIELD CHART – INJECTED

### Simplified Target

Yield: **32.7 BF/BAG (2.94 m2)**

	TARGET	RANGE	UNIT
ACCELERATOR A-20	1275	1250 – 1300	g/l
WATER	10.5	10.0 – 11.0	gal/bag
NOZZLE DENSITY	809	784 - 833	g/l

**HOLD POINT:** Yields measured in excess of 32.7 BF/Bag will result in dry densities below the minimum 22 PCF as published in the Underwriters Laboratories Inc.® Fire Resistance Directory.

**Simplified Range** (Carboline recommends nozzle yields be taken a minimum, 3 times per day. Carboline recommends the use of a 9/16 to 5/8 I.D orifice)

Yield (*)				9.0	US/G	9.5	US/G	10	US/G	10.5	US/G	11.0	US/G	Dry Density (PCF)
				34	L	36	L	38	L	40	L	42	L	
2.68	m <sup>2</sup>	28.8	BF	835		863		891		919		947		25.0
2.79	m <sup>2</sup>	30.0	BF	802		829		855		882		909		24.0
2.91	m <sup>2</sup>	31.3	BF	768		794		820		845		871		23.0
3.04	m <sup>2</sup>	32.7	BF	735		760		784		809		833		22.0

(\*) Yield based on 1-inch (25.4mm) thickness. All weights shown are measured in grams. Cup weights are based on an actual 1000ml (1l) cup as supplied by Carboline (contact your local Carboline Fireproofing representative for cups).

**Non-Carboline alternate cups can be purchased from major home improvement suppliers, these cups average 1038 ml when filled to the top. If utilizing these cups, multiply the cup weight by an average of 1.038 to provide accurate density/yield values.**

### Supplementary Information

#### Accelerator A-20 Mixing

*(mix four 50 lb Bag/34 Gallons Water (total solution equals 46 gallons))*

- Mix accelerator A-20 as directed on the product data sheet. Allow bubbles in the solution to pop before checking density.
- Use a 1-liter plastic container, place on scale and zero/tare container.
- Fill the container level to the top with A-20 solution.
- If weight is below 1250 g/l, add additional A-20 to mix until target is reached.
- Target flow rate for Accelerator A-20 to fill a 1-liter cup is 120 seconds.

#### Nozzle Density

- Set the accelerator flow rate to a quick dribble.
- Commence spraying and pump for roughly 60 seconds until the system stabilizes.
- After 60 seconds, spray TYPE 7GP directly into the Carboline 1000ml cup. Position the nozzle 12-18" above the cup and fill.
- Place an empty container on the scale and press "on/tare"
- Replace the tared container with the identical container, filled with TYPE 7GP and record the net weight.
- Cross reference the above chart to determine yield and adjust injection flow rate as required.