



# TECHNICAL DATA

## Furna<sup>3</sup> 85 (Formerly SC-99108 XR)

ALUMINUM RESISTANT/ SELF FLOW/PUMPABLE/LOW CEMENT CASTABLE

Recommended Service Temperature For

:Aluminum Non-wetting.....2200°F  
 :All Other Applications.....2800°F

Water Required for Mixing

:Self Flow.....4.5 - 5.5%  
 :Vibrated, External or Internal Vibration.....3.5-4.5  
 :Shotcretable.....4.0-5.0

Material Required Per Ft<sup>3</sup>

:Self Flow .....171-176 lb  
 :Vibrated, External or Internal Vibration.....175-180 lb  
 Shotcreted (Includes 5% rebound).....183-189 lb

Packaging.....

55.lb bag

### SELF FLOW

TEMPERATURE (°F)	BULK DENSITY (lb/ft <sup>3</sup> )	LINEAR CHANGE (%)	MODULUS OF RUPTURE (lb/in <sup>2</sup> )	COLD CRUSH STRENGTH (lb/in <sup>2</sup> )	APPARENT POROSITY (%)	K-FACTOR ASTM C1113 (Btu-in/hr-ft <sup>2</sup> °F)	ABRASION LOSS (cm <sup>3</sup> )
220	176-182	-----	1400-2400	9000-15000	9-13	39.1	6 - 8
1500	176-182	-0.4 to 0.2	4600-6000	23500-29500	15-19	23.8	2 - 4
2000	174-180	-0.3 to 0.3	3800-5200	24000-30000	14-18	20.5	-----
2200	173-179	-0.3 to 0.4	3050-4450	21000-27000	15-19	-----	-----

### SHOTCRETED

TEMPERATURE (°F)	BULK DENSITY (lb/ft <sup>3</sup> )	LINEAR CHANGE (%)	MODULUS OF RUPTURE (lb/in <sup>2</sup> )	COLD CRUSH STRENGTH (lb/in <sup>2</sup> )	APPARENT POROSITY (%)	K-FACTOR ASTM C1113 (Btu-in/hr-ft <sup>2</sup> °F)	ABRASION LOSS (cm <sup>3</sup> )
220	174-180	-----	1550-2550	9000-15000	12-16	29.8	4 - 6
1500	176-182	-0.9 to -0.2	2950-3950	12000-19000	14-18	19.5	4 - 6
2000	173-179	-0.6 to -0.0	2500-3500	17000-23000	14-18	19.5	-----
2200	175-181	-0.6 to -0.0	2400-3400	17000-23000	14-18	18.5	-----

### VIBRATED

220	182-187	-----	2000-3000	15000-21000	7-11	-----	4 - 6
1500	180-185	-0.5 to 0.1	4200-6200	27000-33000	10-14	21.7	2 - 4
2000	180-185	-0.3 to 0.3	5600-7400	29500-35500	10-14	22.2	-----
2200	176-181	-0.1 to 0.5	4200-5600	25500-31500	12-16	-----	-----
2550	161-166	0.3 to 0.9	3700-4700	9000-15000	16-20	22.0	-----

\*Shotcreting or pumping application requires 15% to 50% flow value

### CHEMICAL ANALYSIS: (Ignited)

A <sub>2</sub> O <sub>3</sub>	83.5%
SiO <sub>2</sub>	9.6
Fe <sub>2</sub> O <sub>3</sub>	0.8
TiO <sub>2</sub>	2.1
CaO	2.8
MgO	0.2
Alkalies	0.3
Other	0.7

### HOT MODULUS OF RUPTURE:(lb/in<sup>2</sup>)

	Vibrated	Self-Flow	Shotcrete
At 1500°F.....	5500-7500	5500-7500	5800-7800
At 2000°F.....	500-1400		

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled condition (using standard rectangular shapes), and should not be considered to be guaranteed specifications. Properties are subject to normal manufacturing statistical standard deviation ranges, and Resco Products, Inc. reserves the right to modify the properties and specifications at any time without prior notice.

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