



# Technical Data

## EZ Cubed® 85

### SELF FLOW/PUMPABLE LOW CEMENT CASTABLE

Recommended Service Temperature.....		3250° F
Water Required for Mixing	:Self Flow, Pumpable .....	5.0 - 5.5%
	:Vibrated, External or Internal Vibration.....	4.5 - 5.0%
	:Shotcreted.....	5.0 - 5.5%
Material Required Per Ft³	:Self Flow, Pumpable.....	176-181 lb
	:Shotcretable (5% rebound).....	185-190 lb
	:Vibrated, External or Internal Vibration.....	178-185 lb
Packaging.....		55 lb bag

#### SELF FLOW

TEMPERATURE (°F)	BULK DENSITY (lb/ft³)	LINEAR CHANGE (%)	MODULUS OF RUPTURE (lb/in²)	COLD CRUSH STRENGTH (lb/in²)	APPARENT POROSITY (%)	K-FACTOR ASTM C1113 (Btu-in/hr-ft² °F)	ABRASION LOSS (cm³)
220	181-187	-----	1700-2200	6500-10500	9 - 12	29.6	3 - 6
1500	178-184	-0.1 to 0.1	2700-3200	12500-16500	15 - 19	21.8	3 - 5
2550	172-178	0.3 to 0.8	2900-3400	21900-26500	17 - 20	17.7	-----
2910	175-181	0.0 to 0.4	1800-2300	10500-14500	14 - 18	16.4	-----
3000	178-184	-0.4 to 0.0	2100-2600	15000-21000	12 - 17	16.5	-----

#### SHOTCRETED

220	178-184	-----	1800-2300	11000-15000	12-16	-----	3 - 7
1500	176-182	-0.2 to 0.4	2200-3200	11000-17000	14 - 18	-----	3 - 7
2550	173-179	0.1 to 0.7	2400-2900	17000-21000	16 - 20	-----	-----
2910	174-180	0.0 to 0.6	2200-2700	10500-14000	14 - 18	-----	-----
3000	176-182	0.0 to 0.4	2200-2700	9500-13000	12 - 16	-----	-----

#### VIBRATION CAST

220	185-191	-----	1700-2200	8500-13500	9 - 12	-----	3 - 5
1500	181-187	-0.1 to 0.1	3200-3800	14500-18500	12 - 16	-----	3 - 5
2550	177-183	0.1 to 0.5	3900-4400	26900-30500	14 - 17	-----	-----
2910	182-188	0.0 to 0.3	3000-3600	20000-25000	10 - 14	-----	-----
3000	185-189	0.0 to 0.3	2700-3300	16000-22000	9 - 14	-----	-----

#### CHEMICAL ANALYSIS: (Ignited)

Al <sub>2</sub> O <sub>3</sub>	.....	85.5%
SiO <sub>2</sub>	.....	9.8
Fe <sub>2</sub> O <sub>3</sub>	.....	0.8
TiO <sub>2</sub>	.....	2.2
CaO	.....	1.2
MgO	.....	0.1
Alkalies	.....	0.4

#### HOT MODULUS OF RUPTURE: (lb/in²)

Temp °F	Self Flow	Shotcreted	Cast Vibrated
2400.....	1650-1900.....	700- 1100.....	1650-1900
2500.....	1050-1150.....	500- 900.....	1050-1250
2550.....	750- 900.....	-----	-----
2700.....	450- 550.....	-----	600- 950

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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