



Technical Data

EZ³® 20-60

SHOTCRETABLE/SELF FLOW/PUMPABLE LOW CEMENT CASTABLE

Recommended Service Temperature Limit	3000° F
Water Required for Mixing :Self Flow/Pumpable	5.5 - 6.5%*
:Vibrated, External or Internal Vibration.....	4.0 - 5.5%
:Shotcreted.....	4.8 - 5.8%
Material Required Per Ft ³ :Self Flow	153-159 lb
:Shotcreted (includes 5% rebound).....	161-167 lb
:Vibrated, External or Internal Vibration.....	157-161 lb
Packaging.....	55 lb bag

SELF FLOW

TEMPERATURE (°F)	BULK DENSITY (lb/ft ³)	LINEAR CHANGE (%)	MODULUS OF RUPTURE (lb/in ²)	COLD CRUSH STRENGTH (lb/in ²)	APPARENT POROSITY (%)	K-FACTOR ASTM C-1113 (Btu-in/hr-ft ² °F)	ABRASION LOSS (cm ³)
220	152-162	-----	900-1900	4300-13300	9 - 13	-----	7 - 11
1500	156-162	-0.3 to 0.3	600-1600	5400-11400	15 - 19	42.4	8 - 12
2000	156-162	-0.4 to 0.2	600-1600	5500-11500	14 - 18	45.5	-----
2550	157-163	0.0 to 0.6	1100-2100	5100-11100	14 - 18	45.5	-----
2910	155-161	-0.1 to 0.5	2000-3000	2400- 8400	13 - 17	-----	-----

SHOTCRETED

220	159-164	-----	1200-1800	12500-14500	14 - 16	49.8	-----
1500	156-159	-0.1 to 0.0	800-1500	11500-13500	15 - 17	38.0	3 - 6
2000	156-159	-0.1 to 0.0	800-1500	11000-13000	14 - 17	40.5	-----
2550	159-162	-0.2 to 0.1	-----	5000-10000	14 - 17	41.5	-----
2910	-----	-----	-----	-----	-----	39.2	-----

VIBRATED

220	162-168	-----	1900-2900	11500-17500	5 - 9	-----	-----
1500	161-167	-0.3 to 0.3	1100-2100	9800-15800	11 - 15	55.6	3 - 6
2000	160-166	-0.3 to 0.3	1100-2100	9200-15200	11 - 15	59.3	-----
2550	161-167	0.1 to 0.7	1200-2200	5800-11800	12 - 16	60.3	-----
2910	159-165	0.0 to 0.6	2500-3500	5000-11000	10 - 14	-----	-----

*Shotcreting or pumping application requires 40% to 50% flow value

CHEMICAL ANALYSIS: (Ignited)

Al ₂ O ₃	22.3%
SiC	60.3
SiO ₂	14.9
Fe ₂ O ₃	0.5
TiO ₂	0.4
CaO	1.4
MgO	0.1
Alkalies	0.1

HOT MODULUS OF RUPTURE:(lb/in²)

Temp °F	Pour Cast	Shotcreted	Vibrated
1500.....	2500	-----	2800
2000.....	1750	-----	2875

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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