



# PRODUCT DATA

**Brand Name:**

## EZ CUBED® 60-M XT

Extended Working Time (for trimming)

**Description:**

MULLITE-BASED/ SELF FLOW/PUMPABLE/SHOTCRETE/LOW CEMENT CASTABLE

Physical properties shown are average values of samples taken from typical production  
ASTM test methods used where applicable

**Maximum Service Temperature: 3100°F (1704°C)**

**Typical Water Required for Mixing (by weight) :**

Vibration Casting .....	4.00 to 5.00%
Self Flow/Pump Casting .....	5.75 to 6.75%
Shotcrete .....	4.75 to 5.75%

**Dry Material Required per Cubic Foot:**

Vibration Casting .....	151 - 159 lbs
Self Flow/Pump Casting .....	149 - 154 lbs
Shotcrete.....	159 - 164 lbs

### Bulk Density (pcf)

	Vibration Casting Data		Self Flow Casting Data		Shotcrete Data	
After 220°F (105°C)	160 - 165	(2.56 - 2.64 g/cm <sup>3</sup> )	154 - 159	(2.46 - 2.54 g/cm <sup>3</sup> )	157 - 162	(2.51 - 2.59 g/cm <sup>3</sup> )
After 1500°F (815°C)	158 - 163	(2.53 - 2.61 g/cm <sup>3</sup> )	152 - 157	(2.43 - 2.51 g/cm <sup>3</sup> )	153 - 158	(2.45 - 2.53 g/cm <sup>3</sup> )
After 2000°F (1093°C)	156 - 161	(2.50 - 2.58 g/cm <sup>3</sup> )	152 - 157	(2.43 - 2.51 g/cm <sup>3</sup> )	156 - 162	(2.50 - 2.59 g/cm <sup>3</sup> )

### Cold Crushing Strength (psi)

After 220°F (105°C)	17000 - 23000	(1190 - 1610 kg/cm <sup>2</sup> )	7000 - 13000	(490 - 910 kg/cm <sup>2</sup> )	12000 - 18000	(840 - 1260 kg/cm <sup>2</sup> )
After 1500°F (815°C)	19000 - 25000	(1330 - 1750 kg/cm <sup>2</sup> )	7500 - 13500	(525 - 945 kg/cm <sup>2</sup> )	11000 - 17000	(770 - 1190 kg/cm <sup>2</sup> )
After 2000°F (1093°C)	16500 - 22500	(1155 - 1575 kg/cm <sup>2</sup> )	8500 - 14500	(595 - 1015 kg/cm <sup>2</sup> )	8500 - 14500	(595 - 1015 kg/cm <sup>2</sup> )

### Modulus of Rupture (psi)

After 220°F (105°C)	1700 - 2700	(119 - 189 kg/cm <sup>2</sup> )	1250 - 2250	(88 - 158 kg/cm <sup>2</sup> )	2200 - 3200	(154 - 224 kg/cm <sup>2</sup> )
After 1500°F (815°C)	3500 - 4500	(245 - 315 kg/cm <sup>2</sup> )	1750 - 2750	(123 - 193 kg/cm <sup>2</sup> )	2250 - 3250	(158 - 228 kg/cm <sup>2</sup> )
After 2000°F (1093°C)	3200 - 4200	(224 - 294 kg/cm <sup>2</sup> )	2350 - 3350	(165 - 235 kg/cm <sup>2</sup> )	2200 - 3200	(154 - 224 kg/cm <sup>2</sup> )

### Thermal Conductivity (K Factor)

	BTU/ft <sup>2</sup> /hr/°F/inch		W/mK		BTU/ft <sup>2</sup> /hr/°F/inch		W/mK	
After 220°F (105°C)	18.1	2.61	14.9	2.15	16.2	2.34		
After 1500°F (815°C)	16.0	2.31	13.2	1.90	14.7	2.12		
After 2000°F (1093°C)	16.6	2.39	14.0	2.02	15.6	2.25		

### Apparent Porosity (%)

After 220°F (105°C)	4 - 8	9 - 13	-----
After 1500°F (815°C)	10 - 14	15 - 19	13 - 17

### Permanent Linear Change (%)

After 1500°F (815°C)	-0.7 to -0.1	-0.5 to +0.1	-0.3 to 0.3
After 2000°F (1093°C)	-0.7 to -0.1	-0.7 to -0.1	-0.7 to -0.1

### Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	63.3
Silica (SiO <sub>2</sub> ) .....	32.3
Lime (CaO) .....	1.5
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	0.9
Titania (TiO <sub>2</sub> ) .....	1.7
Magnesia (MgO) .....	0.1
Alkalis (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.2

**Standard Packaging:** 55 lb bag. 72 bags per pallet. Bulk packaging available.

Brand Code: 1067

The properties shown on this data sheet represent typical average results 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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