



# PRODUCT DATA

**Brand Name:** UNICRETE 60 FLOWZ

**Description:** UNICRETE 60 FLOWZ is a self-flow, shotcrettable, low cement castable. The properties of low cement castables are sensitive to the amount of mixing water used during casting. The best physical properties are achieved when mixing water is kept to a minimum, the material is mixed thoroughly and as much vibration as possible is used when casting.

Physical properties shown are average values of samples taken under controlled conditions  
ASTM test methods used where applicable

**Maximum Service Temperature: 3000°F (1649°C)**

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

Casting ..... 4.0 - 4.7%

Casting Data

**Bulk Density (pcf)**

After 300°F (150°C)	158	(2.53 g/cm <sup>3</sup> )
After 2000°F (1095°C)	158	(2.53 g/cm <sup>3</sup> )
After 2800°F (1538°C)	156	(2.50 g/cm <sup>3</sup> )

**Cold Crushing Strength (psi)**

After 300°F (150°C)	8500	(595 kg/cm <sup>2</sup> )
After 2000°F (1095°C)	15000	(1050 kg/cm <sup>2</sup> )
After 2800°F (1538°C)	14500	(1015 kg/cm <sup>2</sup> )

**Modulus of Rupture (psi)**

After 300°F (150°C)	2750	(193 kg/cm <sup>2</sup> )
After 2000°F (1095°C)	4000	(280 kg/cm <sup>2</sup> )
After 2800°F (1538°C)	4000	(280 kg/cm <sup>2</sup> )

**Permanent Linear Change (%)**

After 2000°F (1095°C)	-0.5 to +0.5
After 2800°F (1538°C)	+1.0 to +1.5

**Typical Chemical Analysis (%)**

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	60.0
Silica (SiO <sub>2</sub> ) .....	35.8
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	0.9
Titania (TiO <sub>2</sub> ) .....	1.6
Lime (CaO) .....	1.3
Magnesia (MgO) .....	0.1
Alkalies (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.1

**Standard Packaging:** 60 lb bag. Bulk packaging available.

Brand Code: 3134

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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03/28/17 is the date that this data sheet was updated. Check with your RESCO sales representative or RESCO website to determine you have the current sheet.