



Plibrico Company, LLC

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Technical Data Sheet Redline Rapid Floor Patch

Product # 53202

Available Internationally As:

Redline Rapid Floor Patch

Product Description:

This fine grained castable features a unique chemical bonding system that allows it to adhere extremely well to the existing substrate. This material can be installed in thin cross sections and featheredged. It provides fast setting times for quick turnaround and has good strength and thermal shock resistance. It is an excellent choice for patching areas around molten aluminum processing furnaces.

Standard Packaging: 55 # / 25 kg Bag

Shelf Life: 9 months

Service Limit: 2500 °F 1370 °C

Contact Limit: N/A °F N/A °C

Bulk Density - In Service: 132 pcf 2115 kg/m³

Bulk Density - To Place: 132 pcf 2115 kg/m³

Minimum Time To Firing: 4 hr

Abrasion Loss after 1500°F / 815°C
 per ASTM C704

N/A cc

Chemistry (calcined) %					
Al ₂ O ₃	46.2	Alk	1.0	MgO	
SiO ₂	42.3	TiO ₂	1.2	ZrO ₂	
CaO		P ₂ O ₅	4.9	Other	
Fe ₂ O ₃	1.0	SiC			

Water Range Per Standard Package		%	Quarts	Liters
Vib Casting	min	10.5	2.8	2.6
	max			
Casting	min	10.5	2.8	2.6
	max			
Pumping	min			
	max			

Coefficient of Thermal Expansion (reversible):	
x 10 ⁻⁶ in/in/°F	x 10 ⁻⁶ mm/mm/°C

Thermal Conductivity	btu*in/hr*ft ² *°F	W/m°C
500°F / 260°C		
1000°F / 540°C		
1500°F / 815°C		
2000°F / 1090°C		

Temperature		Linear Change% per ASTM C113	CCS per ASTM C133		Cold MOR per ASTM C133		Hot MOR per ASTM C583	
°F	°C		psi	MPa	psi	MPa	psi	MPa
75	20	0.2	7800	54.0	1040	7.2		
250	120	0.2	11300	78.0	1600	11.0		

Other Data:

Release Date: 1 Oct 2008

Heat Up Guide: Redline Schedule 2

ASTM Class:

Refractory material should be stored in a cool, dry environment.

Note: All data are averaged results of ASTM tests (where applicable) on laboratory specimens. Reasonable variations in data can be expected. Data is not to be used for specification purposes. Product data is periodically updated to reflect product, raw material, process and/or testing changes. Please consult your Plibrico representative to make sure you have the most current data.