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Technical Data Sheet Redline Rapidfloor

Product # 53204

Available Internationally As:

Redline Rapidfloor

Product Description:

This castable features a unique chemical bonding system which allows it to adhere extremely well to the existing floor. It provides fast setting times for quick turnaround (fork truck traffic in 4 to 6 hours). It is designed specifically for flooring applications that are subject to high degrees of thermal shock due to molten metal spillage, hot castings, or dross. It is an excellent choice for 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	10.0	2.6	2.5
	max			
Casting	min	10.0	2.6	2.5
	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	8000	55.0	1230	8.5		
250	120	0.2	11800	81.0	1660	11.4		

Other Data:

Release Date: 1 Oct 1999

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.