‘SAIRBOND

HarbisonWalker International

Product Data

10/16: 5001

Description: Dry, Air-Setting, High-Strength Mortar			
Features:	• Mortar consistency can be easily changed by varying water contents.		
Uses	• Laying fireclay, super-duty, and 50% alumina fire brick (including high-fired) for low-temperature incinerators, air heaters, cyclones, cement preheaters, fluid bed reactors, roasters, and vertical shaft furnaces.		
Chemical Analysis: Approximate (Calcined Basis)			
	Silica (SiO_2)	52.8%	
	Alumina (Al_2O_3)	40.2%	
	Iron Oxide (Fe_2O_3)	1.1%	
	Titania (TiO_2)	2.1%	
	Lime (CaO)	0.2%	
	Magnesia (MgO)	0.2%	
	Alkalies (Na_2O+K_2O)	3.4%	
Physical Data (Typical)			
Material Required per 1,000 9-inch Equivalent		lb (kg)	
	Dipping Consistency	275 (125)	
	Troweling Consistency	400 (181)	
Modulus of Rupture at Joints		$lb/in.^2$ (MPa)	
	After 220°F (105°C)	650 (4.5)	
	After 1500°F (815°C)	900 (6.2)	
Refractoriness Test		Mortar does not melt or flow out of joints when heated for 5 hours at 2910°F (1600°C)	
Particle Size			
	Maximum Grain Size 20 Mesh (Tyler)	Less than 0.5%	
	Maximum Grain Size 35 Mesh (Tyler)	Less than 2.0%	

Note: The test data shown are based on average results on production samples and are subject to normal variation on individual tests. The test data cannot be taken as minimum or maximum values for specification purposes. ASTM test procedures used when applicable.

Mixing and Using Information (Water calculated at 8.337 lb/gallon)	55 lb bag	1000 lb bag	1500 lb bag
Water Required—Troweling (Weight 21.0%)			
Pounds	11.6	210.0	315.0
Gallons	1.4	25.2	37.8
Liters	5.2	95.2	142.7
Water Required—Dipping (Weight 29.0%)			
Pounds	16.0	290.0	435.0
Gallons	1.9	34.8	52.2
Liters	7.2	131.4	197.1
Water Retention		5 Minutes	

For detailed mixing and using instructions, contact your HWI representative or visit www.thinkHWI.com.

Heatup/Dryout Schedule

Not applicable

Installation Guidelines

See HWI Installation Guidelines M-2—Dry Mortars—Ready to Use.

Shelf Life (Under Proper Storage Conditions): 365 days