

NO. 36 REFRACTORY CEMENT



Product Data

8/10: 6003

Description: Wet, High-Strength, High-Alumina Mortar

Features: • Wet, air-setting, high-temperature cement with bonding strength and refractoriness.

Uses: • Can be used for all types of brick where extra bond strength is needed in the joints for structural stability.

Chemical Analysis: Approximate (Calcined Basis)

Silica (SiO ₂)	26.9%
Alumina (Al ₂ O ₃)	66.5%
Iron Oxide (Fe ₂ O ₃)	1.2%
Titania (TiO ₂)	2.8%
Lime (CaO)	0.2%
Magnesia (MgO)	0.2%
Alkalies (Na ₂ O+K ₂ O)	2.2%

Physical Data (Typical)

Maximum Service Temperature	3200°F (1760°C)
Material Required	lb (kg)
Per Square Foot (305 mm × 305 mm)	
For ½-in. (13 mm) Thickness	7 (3.1)
To Lay 1,000 9-in. × 4 ½-in. × 2 ½-in. (229 mm × 114 mm × 63 mm) Brick, Dipping Consistency	430 (195)
Modulus of Rupture	lb/in. ² (MPa)
On KX-99 Brick with Ends Bonded Together Using Mortar, Troweling Consistency	
After 220°F (105°C)	780 (5.4)
Refractoriness Test	
3100°F (1704°C) Test Temperature	No softening or flowing
Particle Size	
Maximum Grain Size 20 Mesh (Tyler)	Less than 1.0%
Maximum Grain Size 35 Mesh (Tyler)	Less than 5.0%

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.

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Mixing and Using Information		Per 55 lb Pail
Material is supplied ready to use and can be field-adjusted as required.		
Water Required—Thin Trowel		
Gallons		0.1
Liters		0.5
Water Required—Dipping		
Gallons		0.7
Liters		2.6
For detailed mixing and using instructions, contact your HWI representative or visit www.thinkHWI.com .		
Water Retention		Minimum of 15 minutes
Heatup/Dryout Schedule		
Not applicable.		
Installation Guidelines		
See HWI Installation Guidelines M-1—Wet Mortars—Ready to Use.		
As supplied, this is a thick trowel mortar; small amounts of water (above) can be added if a thinner mortar is required. Always mix well when making such adjustments.		
Shelf Life (Under Proper Storage Conditions)		180 days