

GREENPATCH-421



Product Data

01/09: 5605

Description: 3200°F, Wet, Air-Setting, Thick Patching Mortar

- Features:
- Can be used as patching material, a coating, and for bonding brick such as EMPIRE® S, CLIPPER DP®, KX-99®, KX-99®-BF, and KRUZITE®-70.
 - Supplied as a thick patching mortar; can be field-adjusted with water as needed.
 - Can be fired-in faster than regular high-alumina mortars.
- Uses:
- Boilers, brick plants, steel mills, asphalt plants, and iron foundries.
 - Protective coating over ceramic fiber modules.

Chemical Analysis: Approximate (Calcined Basis)

Silica (SiO ₂)	41.2%
Alumina (Al ₂ O ₃)	53.4%
Iron Oxide (Fe ₂ O ₃)	1.1%
Titania (TiO ₂)	2.0%
Lime (CaO)	0.1%
Magnesia (MgO)	0.1%
Alkalies (Na ₂ O+K ₂ O)	2.2%

Physical Data (Typical)

Maximum Service Temperature	3200°F (1760°C)
Material Required per 1,000 9-inch Equivalent:	lb (kg)
Dipping Consistency	425 (193)
Material Required per Square Foot (305×305 mm)	lb (kg)
For ½ in. (13 mm) Thickness	6.25 (2.8)
Modulus of Rupture at Joints	lb/in. ² (MPa)
On KX-99® Brick with Ends Bonded Together Using Mortar in Troweling Consistency	
After 220°F (105°C)	850 (5.9)
After 1500°F (815°C)	600 (4.1)

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%

Water Retention

Minimum of 2 minutes

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	0.125
Liters	0.45
Water Required—Dipping	
Gallons	0.625
Liters	2.3
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-1—Wet Mortars—Ready to Use.	
Shelf Life (Under Proper Storage Conditions)	180 days