

Description: Wet, High-Strength, Air-Setting, High-Temperature Mortar

- Features:**
- High-strength, air-setting mortar with ideal troweling characteristics.
 - Can be supplied in a consistency for troweled mortar joints in brick linings.
 - Can be field-adjusted to dipping consistency with the addition of water.
- Uses**
- Laying high-duty, super-duty, high-fired super-duty, and 50% alumina firebrick.
 - Ideal as a general-purpose refractory mortar.

Chemical Analysis: Approximate (Calcined Basis)

| | |
|---|-------|
| Silica (SiO ₂) | 59.6% |
| Alumina (Al ₂ O ₃) | 34.6% |
| Iron Oxide (Fe ₂ O ₃) | 1.1% |
| Titania (TiO ₂) | 1.9% |
| Lime (CaO) | 0.1% |
| Magnesia (MgO) | 0.3% |
| Alkalies (Na ₂ O+K ₂ O) | 2.4% |

Physical Data (Typical)

| | |
|--|---------------------------|
| Maximum Service Temperature | 3000°F (1650°C) |
| Material Required Per 1,000 9-inch Equivalent | lb (kg) |
| Dipping Consistency | 350 to 400 (159 to 181) |
| Modulus of Rupture at Joints | lb/in. ² (MPa) |
| After 220°F (105°C) | 650 (4.5) |
| After 1500°F (815°C) | 500 (3.4) |
| Refractoriness Test | |
| 2910°F (1600°C) Test Temperature | No softening or flowing |
| Particle Size | |
| Maximum Grain Size 20 Mesh (Tyler) (0.83 mm opening) | 0.5% |
| Maximum Grain Size 35 Mesh (Tyler) (0.42 mm opening) | 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.

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 | 2.5 |

Note: As supplied, this is a thick trowel mortar; amounts of water (above) can be added if a thinner mortar is required, Always mix well when making such adjustments.

Water Retention

14 Minutes

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

Product Data

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
