

HIGH HEAT MORTAR



Sakrete® High Heat Mortar is a dry, medium-duty mortar ideal for setting masonry units in fireplaces, fire pits or chimney applications such as setting clay flue liners and parging a smoke chimney chamber. It has high heat resistant characteristics and excellent strength properties.

Features:

- For applications up to 2550° F (1399° C)
- Air entrained for freeze-thaw resistance
- Underlayment or wear surface
- One hour working time
- Non water soluble
- Great workability and high strength

Use For:

- Laying fire brick or clay masonry in high heat applications
- Use for constructing or tuck pointing fireplaces, barbecues, and chimney
- Outdoor fireplaces and fire pits
- Setting clay flue liners
- Set or parging of smoke chambers

Yield/Coverage/Water:

Bag Size 50 lb. (22.7 kg)

Nominal Thickness	Approximate Coverage	Water
1/8 in. (3 mm) joints	80-100 Standar Fire Brick	3.5-4.5 qt. (3.3-4.2L)
¼ in. (6 mm) joints	40-50 Standard Fire Brick	

NOTE: Yield and water are approximate. The yield above does not allow for waste and spillage.

Color:

Gray

DIVISION 4

Refractory Masonry Mortaring – 04 05 13

NOTE: Weather and temperatures, amount of water used as well as care used in the application are all factors over which we have no control. We assume no warranty for finished work, expressed or implied. Our liability is limited to the replacement of defective materials.

Preparation:

Concrete:

1. All materials should be stored between 40° F (4° C) and 80° F (27° C) 24 hours prior to installation.
2. Concrete must be fully cured (28 days minimum), free of efflorescence, and not subject to hydrostatic pressure or moisture condensation.
3. All surfaces must be clean, stable, solid, and structurally sound. Remove all unsound concrete, grease, oil, dirt, paint, sealers, curing compounds, waxes and any other foreign materials that will inhibit adhesion.

Mixing:

1. Mix a 50 pound bag of Sakrete High Heat Mortar in a mortar tub, pour the full bag into the tub and create a trough in the powder.
2. Add approximately 3.5 – 4.5 quarts (3.3 – 4.2 L) of potable water.
3. Mix with a shovel or hoe to the desired consistency.
4. Mix for 2 minutes, let rest for 3 minutes, then mix again for 2 minutes. Add additional water in small increments.
5. The use of warm water will accelerate set time, cool water will help to slow set-time.
6. Do not mix more mortar then can be applied in 60 minutes.
7. In addition, a mechanical mixer or a five gallon bucket with a mixing drill attachment would be an alternative method to mixing this product.

Placement:

1. For best results, do not apply when temperatures drop below 40° F (4° C) within 48 hours of application.
2. Do not apply to frozen or frost-filled surfaces. Do not apply in direct sunlight on hot, windy days or when rain is forecasted within 24 hours.
3. For fire brick: 1/8 inch to 3/8 inch joint thickness is fairly common.
4. For clay flue tile, a 1/8 inch joint thickness is common.
5. Always check with the brick manufacturer for their joint thickness recommendations and installation guidelines since this may vary depending on what product is being used.

Notes & Limitations:

1. Allow 7-10 days of curing before heat is applied.
2. If mortar becomes unworkable, dispose of the unused product. Do not retemper.
3. Protect from excessive drying due to temperatures, air movement, and direct sunlight.
4. Rubber gloves and goggles are recommended safety equipment.
5. Store in tightly sealed original factory container.
6. Air, mix and substrate temperatures should be between 40° F (4° C) and 80° F (27° C) and no rain in the forecast within 24 hours of application.
7. Protect from freezing for 48 hours.



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Curing and Sealing:

1. No special curing is required under normal installation conditions. Temperatures should remain above 40° F (4° C) for a minimum of 7 days.
2. If temperatures are expected to drop below freezing during these 7 days, thermal insulation blankets or plastic sheeting should be used.
3. The mortar needs to dry out completely prior to exposure to fire. If not cured completely, the material will crack due to the pressure caused by water evaporating within in the mortar.
4. Allow a minimum of 7 to 10 days before heat is applied. Full curing times will vary with individual job conditions, sunlight, temperatures, and humidity.

Clean Up:

Use warm, soapy water for cleaning hands and tools while product is wet. Sakrete Concrete & Mortar Dissolver can be used if dried or hardened on tools and equipment.

NOTE: Proper application and installation of all Sakrete products are the responsibility of the end user.

Safety:

READ and UNDERSTAND the Safety Data Sheet (SDS) before using this product.

WARNING: Wear protective clothing and equipment. For emergency information, call CHEMTREC at 800-424-9300 or 703-527-3887 (outside USA).

KEEP OUT OF REACH OF CHILDREN.

Limited Product Warranty:

The manufacturer warrants that this product shall be of merchantable quality when used or applied in accordance with the manufacturer's instructions. This product is not warranted as suitable for any purpose other than the general purpose for which it is intended. This warranty runs for one (1) year from the dates the product is purchased. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED TO THE DURATION OF THIS WARRANTY. Liability under this warranty is limited to replacement or defective products or, at the manufacturer's option, refund of the purchase price. CONSEQUENTIAL AND INCIDENTAL DAMAGES ARE NOT RECOVERABLE UNDER THIS WARRANTY.