

MASTERHEAT MIX

**FAST SETTING, POLYMER MODIFIED COMPOUND, SPECIFICALLY ENGINEERED
FOR COVERING RADIANT HEAT CABLES & RPM MATS**

PRODUCT DATA SHEET

DISCRIPTION:

MasterHeat Mix is a fast setting, high strength dry polymer modified mortar that is designed to be mixed with water, no other liquid additive is needed. This product is a cement based multi-purpose floor repair and leveling compound. MasterHeat Mix can be installed from 3" thick (with added aggregate) to a 1/16" feather edge. Suitable for both interior and exterior applications, MasterHeat Mix has excellent adhesion to properly prepared surfaces and is ready for traffic just 1 to 2 hours after installation, depending upon temperature and thickness. This product contains no gypsum.

PROPERTIES & TECHNICAL DATA:

Compressive Strength, psi (ASTM C-109)

2 Hours	4 Hours	8 Hours	1 Day	7 Days	28 Days
970 psi	1263 psi	1593 psi	2193 psi	3928 psi	5060 psi

- Compatible With Most Adhesives
- May Be Sanded Smooth or Broom Finished
- Non-Toxic
- Can Be Coved Up Walls
- Fire Retardant
- Rapid Gain in Strength

MIXING AND APPLICATION INSTRUCTIONS:

- 1. SURFACE PREPARATION:** Surfaces to be covered must be structurally sound, clean and free of dust, oil, grease, sealers, curing compounds, bond breakers, and other foreign matter. Over a plywood or OSB substrate, metal lath must be used. **Over RPM Mats, M-Bond Bonding agent MUST be applied to the entire surface of the RPM prior to applying the MasterHeat Mix.** A Pump sprayer works best for applying, or a brush may also be used.
- 2. MIXING:** MasterHeat Mix is mixed with clean water only. The ratio is 3 to 4 quarts of water for each 40lb. bag. More or Less may be needed to obtain the desired consistency, but do not exceed 5 quarts of water per bag. Water should be added to the mixing container first, then the MasterHeat Mix, followed by the appropriate aggregate (if used). Thicknesses greater than 1/2" must be bulked with clean aggregate such as #8 Silica. Using a mixing paddle and a heavy duty low speed drill (300-400rpm), mix thoroughly (2 to 4 minutes) until the powder had been completely dispersed and the mix has acquired a smooth homogeneous texture. Do not add

more water once the MasterHeat Mix has started setting up. The pot life of the mix averages about 15 minutes depending on the temperature. It is recommended to mix only the amount of MasterHeat Mix that can be applied within that amount of time. During warm weather, the use of cold water can reduce the mix temperature and prevent excessively fast set times. During colder weather, using warm water, and pre-storing MasterHeat Mix in warm, dry storage prior to use, will help prevent slow set times. Also, before mixing the next batch with the same bucket be sure to completely clean the residual mortar from the bucket. If you do not clean the bucket, the mortar left from the previous mix could cause the next batch to accelerate the dry time.

3. **PACKAGING AND COVERAGE:** 40lb bag: directly over heat cable 20 s/f @ 1/4". Over RPM-330 (5/16")=18.75 s/f per bag, RPM-500 (1/2")=11.75 s/f per bag.
4. **RPM MATS APPLICATION:** Check the RPM mats to ensure the surface is free of oils, dust or any other foreign matter that could hinder adhesion. Begin by using M-Bond Bonding Agent. Follow the manufacturer's recommendation for use. The fastest and easiest way to apply the bonding agent is to use a pump sprayer. Spray over the entire surface of the rpm mats. Be sure to apply the bonding agent to all sides of the studs on the RPM mats. Wipe down any excessive or puddled areas of the bonding agent. Once the bonding agent has tacked up (approx 30-60 minutes), begin installing the MasterHeat Mix and use the surface of the RPM mats to screed the floor covering smooth. Allow the MasterHeat Mix ample time to dry before setting tile to the surface. **DO NOT turn on the electric heat wire for 28 days after completion.** This could accelerate the cure time of the MasterHeat Mix, which could cause the product to lose some of its adhesive qualities.
5. **HEALTH HAZARD WARNING:** Caution, may cause eye, skin, or lung injury. Do not breathe dust. Contains free silica. Prolonged exposure to dust may cause delayed lung disease. Eliminate exposure to dust, use OSHA approved mask for silica dust. If any cement or cement mixtures get into the eye, flush with water repeatedly and consult a physician immediately. Freshly mixed product may cause skin injury, avoid contact with skin. Wash exposed skin promptly with water. Keep out of reach of children.
6. **LIMITATIONS:** MasterHeat Mix should only be applied over substrates that are between 40 and 90 degrees F. Do not apply in the rain, and do not allow to freeze within 12 hours of application. When applying MasterHeat Mix to thickness above 1/2", bulk the mix with the appropriate type and amount of aggregate. Do not turn the radiant heat cables on for 28 days after covering with MasterHeat Mix. This will give the product an opportunity to cure properly.
7. **NOTICE:** The information stated in this product specification is given in good faith. Because use of this product is beyond the control of your distributor or the manufacturer, no warranty, expressed or implied, is given.