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Schedule B Plicast/Pligun (Dense) and Plicast/Pligun LWI Castable Refractories

After the castable is installed, a 24 hr moist curing period is recommended. After curing, follow the heating rate shown on the chart. The cool down rate (both initial and subsequent) and reheating rate should not exceed 200°F (110°C) per hour to minimize thermal stress.

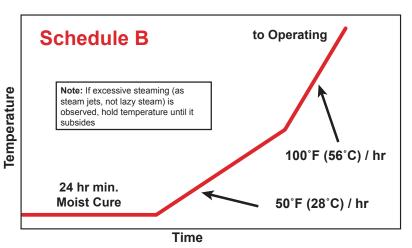
Note: For installations of Plicast / Pligun (Dense) castables >9" (225mm) total refractory thickness, please consult the Plibrico Technical Department.

CAUTION / WARNING

This schedule assumes that heating for bake out is regulated and is applied in a controlled, uniform manner. Note that the target control temperatures are to be measured by thermocouple placement on or within 1/2 in. (12 mm) of the hot face surface of the refractory and must be monitored at multiple locations/areas on the refractory within the furnace/vessel. Care should be taken to not exceed the heating rates or cause excessive thermal gradients (>50°F (28°C)) throughout the furnace/ vessel during bake out. The refractory during bake out must not be exposed to flame impingement or spot (radiant) heating and there should be sufficient combustion air circulation within the furnace/vessel and exhaust air venting from the furnace/vessel. This schedule also assumes that there is a path for the moisture driven through the refractory to escape the furnace/vessel such as weep holes, wicking and/or venting.

Schedule B

- Ambient Moist Cure 24 hr
- Ambient to 1000°F (540°C) 50°F (28°C) / hr
- 1000°F (540°C) to Operating 100°F (55°C) / hr
- Operating Temperature Hold
 1 hr per I in (25mm) of Total
 Lining Thickness



Moisture driven and entrapped in the back up insulation is dangerous and may lead to spalls/explosions at elevated furnace temperatures. This is of special concern in floors/hearths.

If not using gas or hot air for bake out, you must extend listed hold times. Contact Plibrico's Technical Team to confirm details.

If the bake out is interrupted due to burner/power failure, care should be taken not to shock the refractory. If/when combustion is restored, the temperature in the furnace/vessel should be stabilized at the current temperature before proceeding. Heating should proceed from the point of the schedule corresponding to the current vessel temperature, not the temperature when interruption occurred. If excessive or high pressure steam is observed, at any time, hold the temperature until the steam / steam pressure subsides. Failure to take any of these parameters into account may result in lining damage or explosion.

For questions, please consult the Plibrico Technical or Engineering department.

This schedule is intended as a general guide applicable for field installation bake out. For questions, please consult your Plibrico Representative or the Plibrico Technical Department at 312-337-9000 or contact@plibrico.com.