

## **General**

The initial firing of every newly installed Vesuvius refractory lining must be precisely controlled to achieve optimum lining integrity.

The recommended schedule to follow is indicated on each Product Information Sheet.

The correct schedule to use is the one covering the material installed in the hot face of the lining. If two or more hot face refractories are installed, forming a zoned lining, use the schedule with the lowest rate of temperature increase.

Where a holding period is specified, the holding time is governed by the total lining thickness measured at its maximum point, inclusive of the hot face and all the backup insulating components to the shell.

The stated temperatures are to be measured at the hot face surface of the refractory itself and preferably monitored at more than one location. If the temperatures are exceeded lining damage may result.

**Please note:** A separate set of Initial Firing Schedules apply to Vesuvius "Rapid Fire – Rapid Turn Around" SURCAST™ castables and SURGUN® gunning mixes.

## **Precautions:**

- Should visible steaming occur, hold at that temperature until steaming ceases then recommence schedule at that hold temperature.
- Temperatures should be monitored at several locations in the unit.
- Temperatures listed are the hot face refractory surface temperature.
- Always control the schedule according to the hottest part of the unit.
- Once begun the schedule should be followed without interruption.
- The unit should be vented during the schedule to allow venting of steam.
- Flame impingement must be avoided at all times.

## **Handling and Installation**

Two additional measures will further ensure that the full benefits are obtained from the Vesuvius refractory installation. First to preserve these precisely formulated materials in their original manufactured condition, care should be taken in handling and storage of all Vesuvius refractory products. Second, equal care should be exercised during installation to follow up all those procedures proven by years of experience.

For additional guidance Vesuvius offers printed procedures describing the recommended methods for handling and installing Vesuvius refractories. Please request copies from the Vesuvius Australia Technical & Engineering Department.

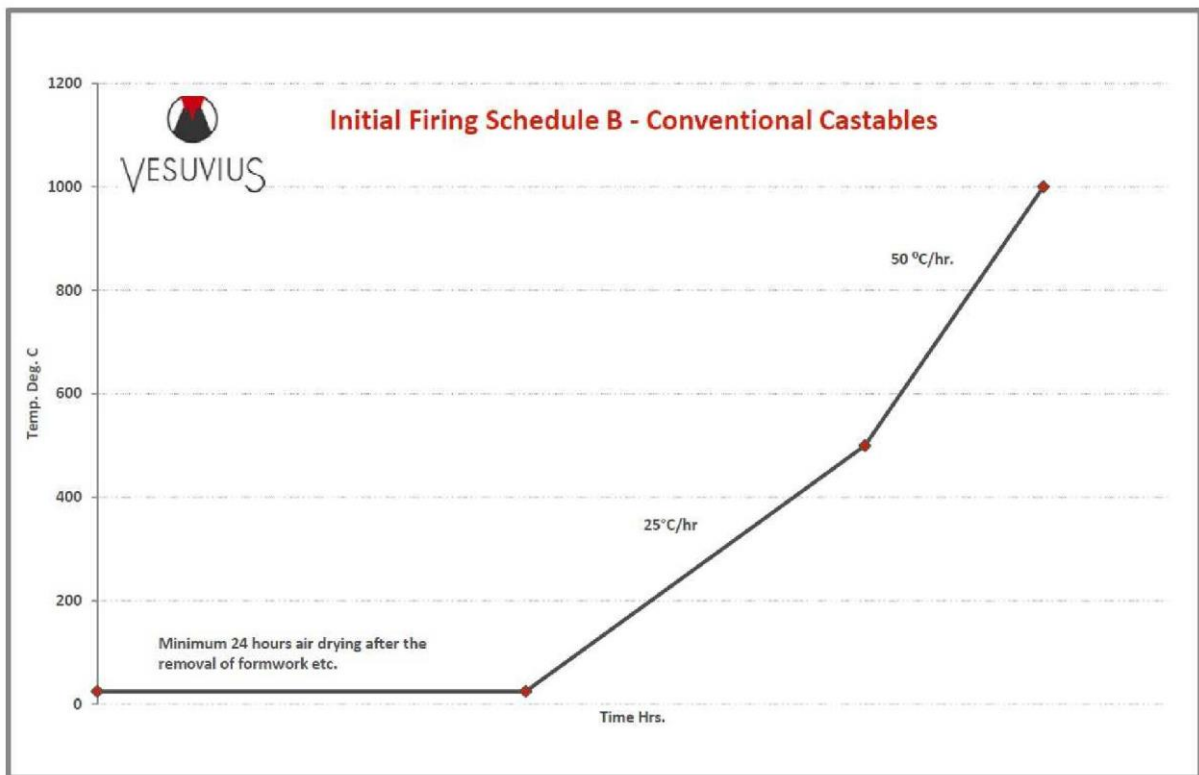
**General Application - Schedule 'B'**

This schedule applies to general purpose, high alumina and insulating grades of Vesuvius refractories of moderate density and porosity.

After a minimum curing time of 24 hours after the removal of formwork etc., follow the heating rate shown in the graph below.

When the operating temperature is reached, hold there for a minimum of one hour per 25mm of the greatest thickness.

Any initial cool down should be at a maximum of 100°C per hour.



**For Further Information:** Please contact the Vesuvius Australia Technical & Engineering Department.

**Disclaimer**

Any non-field technical advice furnished by Seller with reference to the use of its Products is given gratis, and Seller assumes no obligation or liability for the advice given or the results obtained. All such advice is given and accepted at Buyer's sole risk.