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THE THERMBOND® ADVANTAGE

Thermbond® Burner Wall Veneer

Thermbond® refractory products are a complete line of engineered refractory materials. Each Thermbond® product is a two-part system (dry formulation and liquid activator) added together to form a uniquely bonded refractory material. The features of this bonding system provide benefits that set Thermbond® apart from conventional materials.

PROPERTY	FEATURE	BENEFIT
RAPID MIXING	Mixing time on most materials is less than one minute.	Rapid mixing eliminates waiting time required for conventional materials to "wet out".
RAPID CURING	In most cases, Thermbond® is fully cured and ready for heat up in less than four hours after placement.	Rapid curing eliminates the lengthy cure time required of water-based castables.
RAPID HEAT UP	Depending on lining thickness and configuration, linear heat up rates of 500°F (260°C) per hour can be achieved.	Rapid heat up increases unit productivity, reducing the time and cost required for thermal dry out.
THERMAL SHOCK RESISTANCE	Ability to withstand repeated thermal cycling with minimum loss of physical properties.	Thermbond® lining lasts longer in thermal cycling environments, meaning less maintenance and downtime.
BONDING	Tenaciously bonds to itself and other fired refractories creating strong repairs with no laminations.	The bonding capability allows for less tear out, faster repairs, and more time in production.
NON WETTING	Thermbond® has unsurpassed non-wetting characteristics in molten metals, even at elevated temperatures.	Superior non-wetting characteristics mean less build-up and less down time for cold cleaning.



A Two Part Castable System



12 Months No Penetration



Totally Non-Wetting

Thermbond® Advantage

We have included photos from a 50,000* aluminum melt furnace burner wall. The Thermbond® Formula Five L veneer installed in December 2003 replaced a 6" - 8" thickness of corundum that had penetrated a 70% alumina conventional non-wetting formula. The large piece of build up shrunk away from the Formula Five L when the furnace cooled. Demolition was a pair of hands. There was no penetration of the Thermbond® and the wall remained totally intact. Performance, Performance, Performance. We say "non-wetting" and "it's the bond" because of unequalled performance.

