



Thermbond is a registered trademark of Stellar Materials Incorporated. Boca Raton, FL USA. Stellar Canada Inc. is an independent distributor of Stellar Materials Incorporated.

Thermbond Formula 2104-L

Thermbond® A Patented Refractory System

Thermbond refractory products are a complete line of engineered refractory materials. Thermbond is a two-part system (dry formulation & liquid activator) added together to form a uniquely bonded refractory material. This system provides benefits that set Thermbond apart from conventional materials.

Thermbond Formula 2104-L

A physically improved version of the Formula 4-L this product is designed specifically for the Aluminum industry with exceptional non-wetting characteristics and all of the other advantages of the Formula 4-L. What Stellar improved upon here, with a modification to the binder system as well as optimizing grain sizing, are the physical properties. The 2104-L has much better abrasion resistance as well as physical strengths.

Where to use the 2104-L?

Any aluminum exposure areas that are seeing abrasion and wear problems. Such as floors, sills and ramps in these furnaces.

Excellent Physical Characteristics

Case Study

The slag launder of a zinc furnace was a problematic wear area. Slag tapping is every 60 minutes for about 20 minutes at 2450°F. The launder sees thermal shock, high temperature as well as abrasion and mechanical wear from cleaning.

Conventional low cement bauxite based castable was achieving a 3 - 6 day life span. Thermbond 5-L achieved 6 - 8 days while the new 2000 Series Thermbond achieved 14 days after which with only minor repairs it was operational for a further 14 days.

Over 5 Times the Life of Conventional



Launder in operation.



After 14 days in operation - sill in operation.

INDUSTRIES SERVED

- ☞ Refining
- ☞ Non-Ferrous
- ☞ Zinc
- ☞ Precast Manufacturing
- ☞ Rock Products
- ☞ Die-Casting
- ☞ Boiler Manufacturing
- ☞ Mineral Processing
- ☞ Chemical
- ☞ Power Generation
- ☞ Primary Aluminum
- ☞ O.E.M. Furnace Builders
- ☞ Steel
- ☞ Incineration
- ☞ Secondary Aluminum
- ☞ Cremation