



CASE STUDY:

MATRIKOTE 90AC IN 2.2 T (2 MT) IN ALUMINUM CORELESS FURNACE

EQUIPMENT

1000KW 200 HZ 2.2 T (2 MT) CLF

PRODUCT

MATRIKOTE 90AC - A high alumina, fine-grained refractory designed for thin coatings applied over hot or cold surfaces.

APPLICATION

- A new aluminum recycling plant that melts various types of aluminum scrap and cast ingots
- Operating temperature is 1418°F (770°C)
- Operates 6 days at 3 shifts per day

INSTALLATION

- After removing the form, the refractory surface was cleaned with a smooth wire brush and air pressure for a better result when applying the coating.
- MATRIKOTE 90AC was applied to warm refractory surface for faster drying. Water addition: 15%
- A second layer was applied to perfect the surface. Water addition: Approximately 18%.
- 48.5 - 50.7 lb (22 - 23 kg) of material was used to paint the surface of the newly installed furnace (Actual capacity of the furnace is over 3.3 T (3 MT))

RESULTS

- MATRIKOTE 90AC performed very well.
- Installation was easy, attributed to warm refractory surface.
- **Customer is satisfied and plans to use MATRIKOTE 90AC at each weekly shutdown to wash the refractory surface after cleaning.**



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Reference#
CS_MATRIKOTE90AC_ALUMINUMCORELESS_2017

Allied Mineral Products, Inc. supplies an entire line of monolithic refractories for the metals industry. For more information or a complete evaluation of your refractory requirements, please contact your local Allied representative.

