

Ceramite®
Superior Performance in Wear Resistant Applications
Ceramite® CSA Hearth Tile

Bulletin 0165

Cremation Industry

12/06

Ceramite® is a family of advanced ceramics that incorporate inorganic composite materials & densely packed micro particles. Ceramite® is formulated to yield high abrasion resistance, excellent mechanical strength, and resistance to high temperature and thermal shock. Ceramite® cast, hi-fired shapes are designed and produced to your specific application.

Tried June 2004

Ceramite® CSA is the 75% silicon carbide formula. **Ceramite® CSA Hearth Tile** were installed in the hearth of a cremation chamber in 2004. Two years later, the Tile had maintained their original thickness and stood proud of the conventional hearth material installed at the same time.

Ceramite® CSA Hearth Tile have unique properties that withstand the severe conditions within cremation chambers.

- i) **Thermal shock resistance** - preventing micro-cracking of the tile surface that promotes surface spalling and reduces the tile thickness when the surfaces are scraped or cleaned.
- ii) **Highest strength** - all Tile are hi-fired to optimize the strength of the CSA formulation to withstand the physical abuse within the chamber.

- iii) **Low porosity** - Ceramite® technology reduces the porosity of the shapes delaying the penetration by fluids and alkalae released during the burning cycle that cause the degradation of conventional refractory castables.

Standard tooling sizes are available to fit several hearth designs or custom tooling to suit your chamber can be fabricated at our shop.

Refractory technology has improved substantially over the past 20 years. Ceramite® will reduce premature shutdowns and dramatically increase the aesthetics of your chamber. **Give us a call to take advantage of a very unique technology - Ceramite® CSA Hearth Tile.**



After 2 Years



After 2 Years



Spanner tile 2.5" low - laid in 2.5" brick for proper height.



Beginning installation.



Rollers used to move tile over hearth - 8th tile placed in these cardboard rollers.



Complete hearth with 8 pieces of Ceramite® CSA Tile.

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 |