specialist refractory solutions
Refraline is a specialist in the installation, repair and maintenance of refractory solutions for a wide range of industries including iron and steel, ferro-alloys, non-ferrous metals, platinum group metals, chemical and petrochemical, cement and lime, power generation, mining, clay brick, glass and ceramics.

The company has undertaken numerous prestigious contracts throughout Sub-Saharan Africa, including: South Africa, Botswana, Angola, Zambia, DRC, Namibia, Lesotho, Swaziland, Mozambique and Mauritius. Projects have been completed as far afield as Ethiopia, the Middle East and Australia. The company’s reputation has been built on its reliability, flexibility and fast response times.

Refraline offers full line of supply, from sourcing to installing refractories, by stationing highly skilled and experienced staff on site, thereby enabling companies to focus on their core competencies. We also manage entire fleets of ladles, ensuring optimum availability and on-time delivery of hot ladles to operations departments.

**OUR SCOPE SPANS:**
- Demolition
- Material Supply
- Turnkey Projects
- Service Contracts
- Pre-Cast Material
- Monolithics
- Manufacturing

**PROUDLY CERTIFIED:**
- Safety : BS OHSAS 18001 : 2007

Refraline has successfully completed projects in a wide variety of industries.

**INDUSTRIES:**
- Cement & Lime
- Glass
- Petrochemical
- Ferro Alloy
- Iron and Steel
- Power Generation
- Non-Ferrous
- Brickmaking & Ceramics
- PGM & Chemical
Refractory Materials

Precast

Refractory Precast Shapes
Precast shapes are manufactured under controlled conditions to a higher degree of completeness than castables installed in situ. This has significant advantages, as the conditions in a precast shop can be better controlled than on site and the curing process can be done prior to installation of the precast shape to avoid curing on site, which is usually part of the critical path during commissioning.

Ceramite Precast Parts
Ceramite is regarded as an advanced solution compared to refractory materials, due to its high mechanical strength and abrasion resistance. Ceramite also has unique properties towards wear abrasion and thermal shock resistance.

Supplied as parts, Ceramite is cast in a wide range of shapes and sizes with the finished products exhibiting exceptional dimensional stability. The Ceramite grades cover demanding applications in ferrous / non-ferrous industries, aluminium, cement and other industrial areas with severe abrasion / erosion.

Ceramics
Kiln furniture for the Ceramic Industry. Products from world leading suppliers include corderite-mullite and silicon carbide kiln batts. Battls, props, plate cranks, plate saggars and profile setters and sintertrays are being supplied. The batts come as a dry pressed or an extruded form.

Foundry
The finest silica induction furnace linings, complemented by a high alumina induction furnace lining. To complement the range, we stock the full range of castables, plastic rammables, coil grout, slip plain, induction furnace formers and ceramic fibre blanket.

Insulation
Insulating fibre bricks, ceramic fibre products, calcium silicate board & microporous insulation are available.

Refractory Bricks
A wide range, sourced from quality suppliers throughout the world, which include normal duty (ND), regular duty (RD), super duty (SD), 60% to 90% alumina.

Stainless Steel Fibres
Stainless steel fibres are added to refractory mixes such as castables and gunning mixes to reinforce and improve the flexural strength of the monolithic refractory lining, resulting in an improved reduction of cracks in the lining. Common grades are 446, 430, 304, 310, 330 and HT special grade. The fibres are available in melt-extract, slit-sheet and drawn-wire shapes. Refraline is a stockist of a wide range of stainless steel fibres.
Manufacturing of Monolithics

Refraline is a manufacturer of a wide range of monolithics.

A full range of conventional and low cement castables, as well as gunning mixes ranging from 1350 °C to 1800 °C. We also supply a variety of insulating castables.

THE RANGE CONSISTS OF:

- Conventional Castables
- Low Cement Castables
- Medium Cement Castables
- Ramming Mixes
- Insulation Castables
- Freeflow Low Cement Castables
- Colloidal Silica Castables
- Conventional Gunning
- Low Cement Gunning
- Mortars

Demolition

Our remote-controlled demolition equipment removes brick lining or monolithic refractory linings quickly and safely. The Brokk 330 and Brokk 150 machines can save valuable time during shutdown, as they have been designed specifically for rough and difficult conditions and are therefore ideally suited to this type of application.

TYPICAL APPLICATION:

- Rotary Kiln
- Tap hole repair or complete reline of a Submerged Arc Furnace or DC Plasma Arc Furnace
- De-scaling of slag in Ladles or removing of Refractory Lining
- Channel Induction Furnace
Full-time, year-round service contracts are now available from Refraline, allowing companies to focus on their core competencies. By stationing highly skilled and experienced service staff on site, Refraline offers full line of supply, from sourcing to installing refractories. Refraline also manages entire fleets of ladles, ensuring optimum availability and on-time delivery of hot ladles to operations departments.

By outsourcing service and maintenance to Refraline, clients enjoy reduced downtime and more consistent quality of production, whilst also benefiting from the vast experience Refraline has acquired. In South Africa, the Refraline Group of Companies employs more than 400 full-time maintenance specialists.

Employing skilled staff, sophisticated equipment and innovative methods, the company can replace or repair refractory production components without causing undue delay.

Quality workmanship is ensured by keeping up-to-date with the latest technological developments both in the industries serviced, as well as the refractory industry.

This proven outsourcing concept has achieved improved plant availability through combined efforts of all disciplines, where Refraline specialists work hand in hand with our client.