

The increasing use of Alternate Fuels has placed increasing demands on refractory materials across the industry, with the type of fuel & contaminants playing a critical role in the outright material performance

SURGUN 50SCZ EXTRA: Dry gunning repairs of lower Cyclones & Calciner

Customer Requirements

Dry gunning repairs are considered by many as the most effective repair methodology for the upper sections of the preheater tower. Combining ease of installation, capability to install small volumes and reduced labor & time compared to casting or bricking.



In 2023, OPC customer in Australia operating 4500 TPD kiln using upwards of 40% AFR thermal via the calciner and Natural gas requested a dry gunning material capable of lasting 12-month campaign life in the calciner and riser areas of the preheater tower.

Vesuvius Recommendations

For the application, Vesuvius recommended **SURGUN 50SCZ EXTRA**. Featuring:

- Superior resistance to Alternate Fuels
- High Thermal stability material
- Excellent thermal shock resistance
- Rapid Turnaround technology

The added benefit of having a sustainable & secure raw material pipeline.



SURGUN 50SCZ EXTRA
Panel shown in Riser duct after 12 months of service

Customer Impact

Material was successfully installed in the upper calciner and riser ducts using standard gunning crew & Vesuvius specified equipment & supervision.

Material successfully completed 12-month campaign and was able to return to service for 2nd campaign. As a consequence customer was able to:

- Reduce total cost of ownership by having 'repeat' campaign life
- No visible build up indicating process conditions were able to be maintained at ideal rate, improving plant efficiency

