

Industry:

Cement

Plant:

Solid Recovered Fuels (SRF)

Lining System:

K-ALOX

K-ALOX LINED SRF PIPEWORK SYSTEM

Key Benefits

- ✓ Minimal cost to improve performance
- ✓ Improved wear resistance
- ✓ Maintain operation uptime.

Problem: Solid recovered fuels (SRF) have become a crucial alternative to fossil fuels in the cement industry, offering both environmental and economic benefits. However, while direct maintenance costs are often considered, associated expenses related to material buildup, blockages,

and equipment degradation are sometimes overlooked. Protecting equipment such as silos, feeders, and pipelines is essential to maintain system performance and prevent costly plant shutdowns.

Solution: SRF, derived from a blend of shredded paper, plastics, wood, textiles, and other waste materials, poses challenges due to its abrasive nature and levels of contamination. Conveying such materials, whether mechanically or pneumatically, can result in premature equipment failure, causing stoppages and ad-hoc maintenance. Integrating proven technologies that offer corrosion and wear resistance, along with enhanced material transfer capabilities, is crucial to safeguard equipment and prevent costly disruptions. A UK cement producer embarked on a project to install an alternative fuel system (AFS) at its 1.5 million tpa plant, aiming to replace a significant portion of coal usage with SRF. Kingfisher, known for its expertise in providing solutions for handling abrasive materials, was enlisted to assist with the technical design, manufacture, and supply of pneumatic conveying injection pipelines for the project.

Benefits: Kingfisher's extensive experience in handling SRF and understanding its characteristics has enabled them to offer tailored solutions that provide significant plant protection. Their K-BAS ceramic lining pipe work system, for instance, outperforms unlined equipment by a factor of 6 to 1, offering an unparalleled level of protection within budget constraints. Kingfisher supports the need for ongoing customer service, recognising the evolving nature of environmental legislation, fuel prices, and process requirements. One notable success story involves a UK cement plant that struggled with its previous lining system for solid liquid fuels (SLF). Upon Kingfisher's recommendation, the plant trialed the 92P K-ALOX High Alumina ceramic wear-resistant lining system, resulting in a remarkable improvement in system longevity.

Protecting Industry Worldwide

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