

## D39A

HASLE D39A is a very strong and extremely alkali resistant low cement castable based on high-burnt fire clay (Chamotte). Supplementary to the alkali-resistant properties of the raw materials, the grain size distribution ensures a low porosity and hence reduces the risk of build-up on the refractory lining.

### Applications

In the cement industry D39A is widely used all over the world in the cyclones and calciner of preheater towers, in smoke chambers, riser ducts and grate cooler (bottom end), and where ever an extra high protection against volatile alkali elements and alkali-chlorides is needed.



D39A is outstanding as linings in boilers and incinerators fired with various biomass-fuels, including sludge from sewage treatment works and black liquid from the pulp and paper industry.

## D39A-EF

This is an easy flow able finer grained version of the original D39A. D39A-EF needs much less vibration during installation and flows easier into curved and narrow parts. This product is widely used in biomass-fired boilers.

## GUN39A

GUN39A is a new low-cement dry-gunning mix based on the same raw materials as D39A and D39A-EF and hence has the same excellent performance against alkali-attack. This low cement gunning mix is fast and easy to install and has a low rebound.