

Flexible Use, High Quality and Cost-Effective...

KALCRET Prefabricated Shapes Allow Optimal Linings and Installation



Prefabricated shapes of the KALCRET hard compound have performed well in actual practice. Tile shapes are prefabricated at Kalenborn from the cast compound and provided with fastening devices, such as weld-on bolts.

The shapes are compacted on a vibrating table. The size of the shaped elements is limited to one easily handled. Dimensions of 300 x 1,000 mm at a thickness of 30 mm are realistic.

Highlights:

- minimized engineering and minimum number of different shapes

- high density and thus high abrasion resistance of the prefabricated shapes; the consistent quality available in shop fabricated pieces reduces the “man factor”
- drastically reduced installation periods; prefabricated shapes allow quick and precise installation over large surfaces
- lining can be used immediately after installation, with no need for curing
- installation of linings of KALCRET prefabricated shapes is not a problem during the winter months at outside temperatures below +5 °C / +41 °F; the costly heating of components to be lined is not necessary

Combination of KALCRET Benefits from Kalenborn: Optimal Linings, Drastically Reduced Installation Periods and Immediate Use

■ KALCRET lining of preheater cyclones in a cement plant



Kalenborn was asked to provide for new lining of the preheater cyclones in a cement plant because the blow-out elements of the cyclones had been worn down due to wear problems. With an internal

gas temperature of 450 °C / 842 °F the maximum permitted outside temperature for the steel components was 90 °C / 194 °F. Moreover, the customer requested minimum installation periods.

KALCRET shapes pre-fabricated by Kalenborn, fitted with insulation and mechanically fastened to the steel plates have been the solution to these requirements. That answer simultaneously offered high wear resistance, high thermal insulation and short installation periods. The complete installation of more than 200 m² was carried out in less than 2 weeks at temperatures less than 0 °C / 32 °F. The system was able to resume operation immediately.

■ KALCRET for vertical roller mills



Kalenborn has supplied KALCRET prefabricated shapes with a cast-in fastening system for lining the high wear areas of the grit cone of vertical roller mills. The fastening system enables the shortest possible installation times. This applies, in particular, to zones with projecting surfaces. Stockkeeping of prefabricated shapes is easy so

that the necessary material will be on hand in case of an extraordinary plant shut down. KALCRET-BNY of a wall thickness of 30 mm is used for these applications. Due to the mechanical production process the shapes have been intensely compacted and are highlighted by a uniform and reliable wear resistance.

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