

# KALCRET® Hard Compound

## Trowelled, Cast or Sprayed on Wear Protection for System Components and Pipes

KALCRET hard compound a family of cement bonded wear protection materials. These are based on inorganic materials of high strength and good wear resistance.

The specific density is attained by a well balanced particle size distribution of the individual components. The pores between the cement portions are filled by the addition of superfine particles of micro silica.

KALCRET reaches high compressive strength after 8 hours. It is excellently suited for repairs. The mixture includes defined additives and is made up of:

- Hard aggregate materials
- Cement binder
- Micro silica

A specific portion of steel fibers is added to enhance the structural strength. The type of steel fibers used depends on the thermal, chemical and corrosive stress to which the wear protection will be exposed. Expansion joints will be provided when KALCRET is used at higher temperatures.

Concerning its chemical resistance KALCRET is more stable than regular concrete. However, KALCRET cannot be used as acid protection. Watch the video.

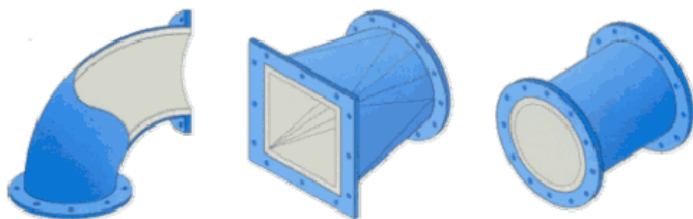
### Ideal for material combinations

KALCRET is also fit for combination with other materials from the Abresist Kalenborn wear protection program, such as with: ABRESIST® fused cast basalt, KALCOR® zirconium corundum and KALOCER® High Alumina Ceramics.

**Installation:** by trowelling, casting in molds, or spraying.

**Application temperature:** up to 1200°C / 2192°F depending on material, application and geometry.

**Advantages:** highly wear resistant, strong and jointless lining, highly temperature resistant.



Casting.



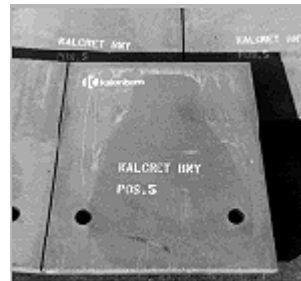
Spraying.



Casting.



Trowelling.



Tiles and shaped elements made from the cast compound are prefabricated at the Abresist Kalenborn plant and equipped with well-known attachment hardware, such as steel corner inserts.



Pipes and pipe bends lined with KALCRET® hard compound are produced with an inside diameter of more than 40 mm.