KALCRET BTX

Hard Compound

Material data sheet

Material description in general

KALCRET BTX is a trowelable, cement-bonded hard material compound for seamless protection of plant components. The material on the base of bauxite has high abrasion resistance and compressive strength as well as very high temperature resistance. KALCRET BTX is easy and quickly to use and ensures fast availability of plant components. KALCRET BTX is offered in bags-supply or as individual shape. The material is suitable for high temperature loads.

Characteristics of the installed material

Feature	Unit	Data
Hard material content	Wt%	70
Density	g/cm³	2.7
	lb/ft³	169
Thermal coefficient of expansion	K ⁻¹ (20 - 400 °C)	2.7 x 10 ⁻⁶
	°F ⁻¹ (68 - 660 °F)	1.5 x 10 ⁻⁶
Thermal conductivity	W/mK (20 - 400 °C)	2.5
	BTU-in/hr-ft²-68°F	17.3
Max. application temperature	°C	1200
	°F	2192
Max. thermal shock resistance	K/h	300
	°F/h	540
Wear resistance acc. ASTM C704-15	cm³ at 90° angle	≤ 4.0
Wear abrasion resistance acc. DIN 52108	cm ³ /50 cm ²	1.5 – 2
Wear erosive resistance	min/cm³	150
Cast shrinkage	Vol. %	0.2
Compressive strength	MPa	130
Flexural strength	MPa	22

Approximate figures are given for all technical data. They are based on assessment of tests on specific samples and cannot be considered as a guarantee for which Kalenborn would have to assume legal responsibility. Subject to technical changes and errors.

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Installation

- KALCRET BTX trowelled compound allows protection of horizontal, vertical, inclined, and curved surfaces.
- Overhead working is easily done.
- KALCRET BTX can either be applied at the Kalenborn plant or at the site.
- For safe installation a comprehensive range of tools and equipment is available for installation as well as a detailed instruction on

https://www.kalenborn.com/fileadmin/Redakteur/PDF/EN/EN Usermanual KALCRET.pdf.

Advantages

- Highly resistant to abrasion and compressive stress
- High erosion resistance
- Resistant to high temperatures
- Continuous lining
- Fast lining
- By short start-up and reaction times a quick application is possible

Applications from energy and the environment, cement and building materials, iron and steel, mining and other industries

bunkers
channels
chutes
cyclones
deviation hoods
dust collecting ducts
gas purifying systems
hoppers
hydraulic conveying systems
pipe bends
pipes
pneumatic conveying systems
separators
silos
vessels

Due to the manufacturing process, it is not possible to exclude small variations in the properties of the product. They also include typical characteristics of hydraulically setting products like temperature-and application-related fluctuations. This has an effect on the working, hardening, and product properties. With prefabricated elements these variations may include, but are not limited to tolerances of dimension, surface finish, chipping, voids, porosity, and hairline fractures