

ABRA-CEM®

Abrasion-Resistant Ceramic Concrete

ABRA-CEM® is a dense, non-refractory hydraulic concrete made from a ready-to-use dry mix. After adding a precise amount of water, it forms a chemically bonded ceramic.

It can be mixed with metallic fibers to enhance its strength. Casting and compaction, preferably by vibration, is the recommended application method.

ISO 1927-1 Classification

PROPERTIES & APPLICATIONS

ABRA-CEM® is recommended for the internal protection of extruders, particularly for grid tanks, pressure heads, extrusion nozzles, mixer linings, dust extraction ducts, and transport chutes.

CHEMICAL ANALYSIS

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	Loss on Ignition (LOI)
65.8%	15.1%	1.7%	13.5%	0.6%

CHEMICAL CHARACTERISTICS

Apparent Density	Fired at 110°C	2.75 Kg/dm ³	ISO 1927-6
Reversible Thermal Expansion	1000°C	0.65%	
Thermal Conductivity at Average Temperature	400°C	1.1 W/m.K	ISO 1927-8
Water Content	6%		ISO 1927-4

APPLICATION

The concrete preparation is carried out using a mixer, ensuring strict adherence to the specified water quantity.

After casting, forced vibration is recommended to improve compaction.

The standard granulometry is **0-5 mm**, with other sizes available depending on the required thickness.

PACKAGING

25 kg Drum