

PRODUCT DESCRIPTION

OP/G50+/2020/12 dated 1st December 2020

CALCIUM ALUMINATE CEMENT

GÓRKAL 50+

GENERAL CHARACTERISTICS

GÓRKAL 50+ is hydraulic binder for refractory and building applications. It is characterized by low Fe₂O₃ content. Fast strength development and short setting time are advantages of **GÓRKAL 50+** cement. **GORKAL 50+** material is manufactured and controlled with respect to PN-EN 14647 norm.

SPECIAL PROPERTIES

GÓRKAL 50+	is	characterised	by	some	special
features:					
Specific surface acc. to Blaine			3000 - 3500 cm²/g		
Common refractoriness			≥ 146 sP		
Density				3,	0 g/cm ³
Bulk density				1,	1 g/cm ³

APPLICATION

Thanks to stable phase composition with perfect mechanical properties **GÓRKAL 50+** can be use in building chemistry mortars and concrete as well as part of refractory insulation pulps or other monolithic products.

CHEMICAL COMPOSITION

GÓRKAL 50+ principal components:

component	Typical values [%}		
Al ₂ O ₃	51 - 55		
CaO	<38		
SiO ₂	<5		
Fe ₂ O ₃	<3		

The characteristics have been determined by classical analysis

MINERALOGICAL COMPOSITION

Principal phases:CASecondary phase:CA2, C4AF, C12A7, C2ASThis information is just given as rough one.

HYDRAULIC PROPERTIES

GÓRKAL 50+ hydraulic properties:

	Typical values [minutes]
Initial setting time	>220
Final setting time	<600

Determined acc. to EN-196-3

MECHANICAL PROPERTIES

GÓRKAL 50+ is characterised by following mechanical strengths:

Cold Crushing Strength after 6h	>18 MPa
Cold Crushing Strength after 24h	>45 MPa

The mixture composition is: 1350 g French sand 500 g cement 200 g water

Determined acc. to EN-196-1

SHELF LIFE

If stored properly, in dry conditions, the **GÓRKAL 50+** shelf-life can be 12 months from production date. Please, contact GÓRKA CEMENT R&D, Technical Sales Support Department for more precise details, if required.