#### PRODUCT DESCRIPTION

GÓRKA
CEMENT
1912

OP/G50/2021/1 dated 1st April 2021

#### **CALCIUM ALUMINATE CEMENT**

# **GÓRKAL 50**

#### **GENERAL CHARACTERISTICS**

**GÓRKAL 50** is hydraulic binder for refractory and building applications. Fast strength development (80% in 12h from preparation) and short setting time are advantages of **GÓRKAL 50** cement. **GORKAL 50** material is manufactured and controlled with respect to PN-EN 14647 norm.

#### **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 <sub>2</sub> O <sub>3</sub>	50 - 55
CaO	<36
SiO <sub>2</sub>	<4
Fe <sub>2</sub> O <sub>3</sub>	<10

The characteristics have been determined by classical analysis

# **MINERALOGICAL COMPOSITION**

Principal phases: CA

Secondary phase: CA<sub>2</sub>, C<sub>4</sub>AF, C<sub>12</sub>A<sub>7</sub>, C<sub>2</sub>AS

This information is just given as rough one.

#### **SPECIAL PROPERTIES**

**GÓRKAL 50** is characterised by some special features:

Specific surface acc. to Blaine 3400 - 3900 cm<sup>2</sup>/g

Refractoriness  $\geq$ 146 sP Density 3,0 g/cm³ Bulk density 1,1 g/cm³

# **HYDRAULIC PROPERTIES**

# **GÓRKAL 50** hydraulic properties:

	Typical values [minutes]
Initial setting time	>90
Final setting time	<480

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. Please, contact GÓRKA CEMENT R&D, Technical Sales Support Department for more precise details, if required.