

# ADVANTAGES



## HIGH ABRASION RESISTANCE

Thanks to its special phase structure, **Rego** shows very high wear resistance in technical concrete applications. When used with Çimsa Aluminates family cements, the total abrasion resistance of the system would increase.



## RESISTANCE TO SULFATE ATTACKS

Sulfate attacks are caused by the reaction of tricalcium aluminate in cement structure and sulfates in water. This causes cemented systems to be affected in the medium and long term and to form cracks. Sulfate attacks can be seen in applications exposed to seawater, groundwater and various chemicals. Since the **Rego** phase structure does not contain tricalcium alumine, it protects against sulfate attacks in your applications



## HIGH DURABILITY

Thanks to the advanced chemical and mineralogical structures of **regö**; when used as a single binder, it provides high resistance to alkaline-silica reactions, sulfate and acid attacks, high temperature and efflorescence



## TAILOR MADE GRADATION

**Rego** is made of 100% calcium aluminate cement clinker and provides different gradation possibilities depending on the need. **Rego** is especially used in sewer pipes, industrial surfaces and pool applications.



## RESISTANCE TO ACID

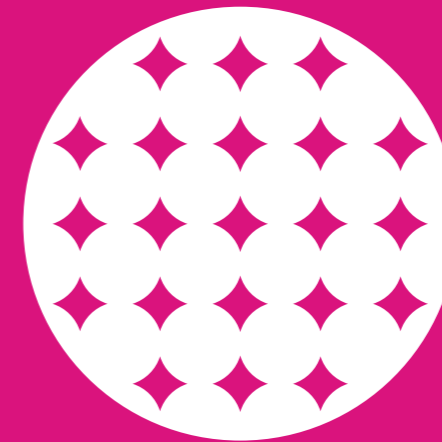
**Rego** has high acid resistance. While the structure of Portland cements deteriorates when the pH value falls below 7, **Rego** maintains its integrity up to pH 3. Thanks to this feature, these products offer value added solutions for special mortars.



## THERMAL RESISTANCE

While **Rego** provides high heat resistance when used with a suitable type of calcium aluminate cement, Portland cements lose their integrity at 400 ° C. By using **Rego**, one will be able to produce resistant to high temperatures.

ÇİMSA



ALUMINATES

ÇİMSA



HIGH ABRASION RESISTANCE



RESISTANCE TO SULFATE ATTACKS



HIGH DURABILITY



TAILOR MADE GRADATION



RESISTANCE TO ACID



RESISTANCE TO HEAT

REGO

ÇİMSA

THE NAME OF THE FORMULA

# REGO

## (TAILOR MADE GRADATION + HIGH DURABILITY = **REGO**)

Rego is an aggregate product obtained with a calcium aluminate clinker developed by Çimsa Research and Application Center for pipe coating and technical concrete industry, technical mortar and repair mortar manufacturers. The main feature of **Rego** is that formulations can be optimized to achieve excellent grain size distribution and offer an opportunity such as an optional grain size distribution option. **Rego** provides maximum performance when used in conformity with Resisto Family products.

**Rego** brings with it various advantages for technical mortars and concrete applications;

- High stability and thermal resistance up to 1250 °C,
- Optimum water retention capability with improved physical properties,
- Environmentally friendly monolithic products at medium decision temperatures,
- Improved strength properties,
- Tightly controlled iron ( $\text{Fe}_2\text{O}_3$ ) content in monolithic refractory products to increase refractory properties,
- High resistance to alkaline and chemical attacks.

**1450 °C**

Rego provides thermal resistance up to 1250 °C

**MAX**

It is recommended to use it with the Resisto family for maximum wear resistance.

**OPT**

Rego optimizes recipes to achieve the perfect grain size.

**pH 3**

Rego maintains its integrity up to pH 3.

**REGO IS PRODUCED ACCORDING TO EN 14647 STANDARDS AND HAS THE FOLLOWING FEATURES**

### CHEMICAL FEATURES

$\text{SiO}_2$	%	$\leq 5,0$
$\text{Al}_2\text{O}_3$	%	$\geq 38,5$
$\text{Fe}_2\text{O}_3$	%	$\leq 19,0$
CaO	%	$\leq 39,0$
MgO	%	$\leq 1,0$
$\text{SO}_3$	%	$\leq 0,2$
$\text{Na}_2\text{Eq}$	%	$\leq 0,3$

