

# ADVANTAGES



## ADJUSTABLE SETTING TIME IN TECHNICAL MORTARS

**Recipro40+** family offers the most suitable structure for new generation technical mortars in triple systems. Depending on the recipe needs, **Recipro40+** helps producers to adjust the setting initial time and achieve strength in the first minute.



## MAXIMUM STRENGTH

When **Recipro40+** is used in triple systems, it provides maximization of mortar strength.



## OPTIMUM WATER RETENTION RATE

**Recipro40+** is one of the most reactive products among all other types of cement. Optimum water retention properties are available that meet the needs of building chemicals manufacturers. Especially in self-propagating screeds, they have advantages that prevent vomiting and help to spread better.



## HIGH WEAR RESISTANCE

Thanks to its special phase structure, **Recipro40+** shows very high wear strength in self-contained screeds, tiles and concrete applications. In this way, they are preferred on surfaces exposed to high traffic. When used with Rego, the total wear resistance of the system will increase.



## EARLY DRYING

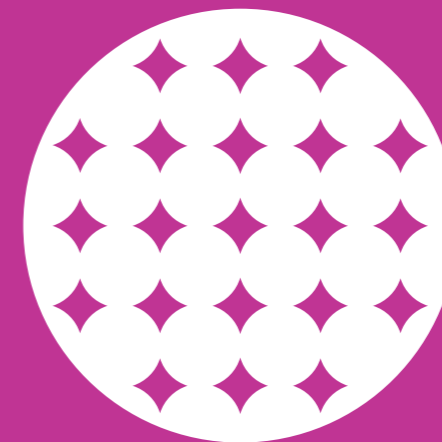
Drying time of self-leveling screeds should be as short as possible, as required by the manufacturers of construction chemicals. **Recipro40+** helps to dry early in technical mortars.



## LOW CHROMIUM +6 VALUE

Chromium (VI) value in cement products has a negative effect on human health and may cause dermatological problems. With the decision of the European Union in 2003, the chromium (VI) value should be below 2 ppm in all cement products. Thanks to its special structure, **Recipro40+** contains chromium (VI) below the limit value.

çimsa



ALUMINATES

çimsa



ADJUSTABLE SETTING TIME IN TECHNICAL MORTARS



MAXIMUM STRENGTH



OPTIMUM WATER RETENTION RATE



HIGH WEAR RESISTANCE



EARLY DRYING



LOW CHROMIUM +6 VALUE

# RECIPRO40+

çimsa

THE NAME OF THE FORMULA

# RECIPRO40+



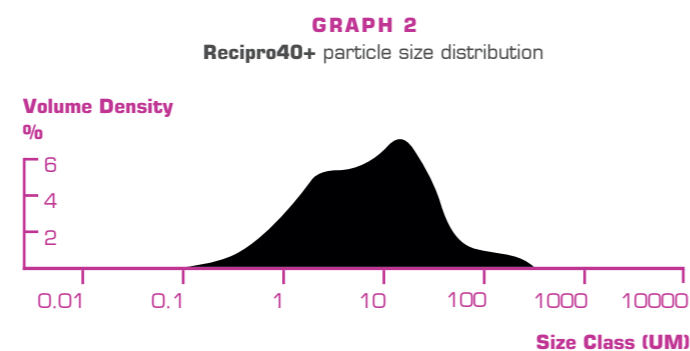
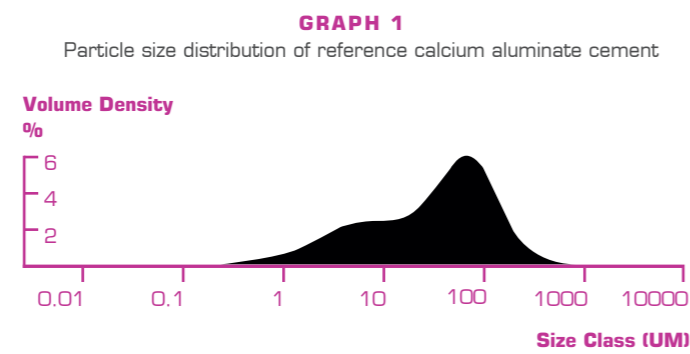
## MAXIMUM REACTIVITY + OPTIMUM WATER RETENTION = RECIPRO40+

The main need of Calcium Aluminate Cement users in dry mixture applications is responsiveness. **Recipro40+** has been developed to deliver faster reaction in dry mix products. **Recipro40+** has also been improved to increase the water retention rate in the system. When used in triple systems, **Recipro40+** helps to reduce the need to add chemicals so that your mortars reach optimum rheumatology. For maximum reaction speed at an early age, **Recipro40+** particle size distribution is optimized, meeting the need for early resistance of dry mix users

**45 MPa** Recipro40+ reaches a pressure resistance of 45 MPa in 6 hours.

**OPT** Thanks to its optimum rheology, it reduces the need for chemical additives.

As seen in Graph 1 and Graph 2, the optimized particle size distribution of Recipro40 performs better than the distribution of reference calcium aluminate cement. On the other hand, particle sizes below 10 micrometers are limited to prevent increased water demand of your mortars.



## RECIPRO40+ IS PRODUCED ACCORDING TO EN 14647 STANDARDS AND HAS THE FOLLOWING FEATURES

### PHYSICAL AND MECHANICAL FEATURES

Initial Set (EN 196-3)	min	≥ 150
Final Set (EN 196-3) (g/cm³)	min	≤ 350
Specific Gravity (EN 196-6)	(g/cm³)	≤ 3,20
Compressive Strength (EN 196-1)	(MPa)	6 hr ≥ 45 24 hr ≥ 65
Residue at 45 microns (EN 196-6)	%	≤ 4,5
Residue at 90 microns (EN 196-6)	%	≤ 0,4
Blaine (EN 196-6)	(cm²/g)	≥ 4.000

### CHEMICAL FEATURES

SiO <sub>2</sub>	%	≤ 5,0
Al <sub>2</sub> O <sub>3</sub>	%	≥ 38,0
Fe <sub>2</sub> O <sub>3</sub>	%	≤ 18,0
CaO	%	≤ 38,0
MgO	%	≤ 0,8
SO <sub>3</sub>	%	≤ 0,1
TiO <sub>2</sub>	%	≤ 3,0
Na <sub>2</sub> Eq	%	≤ 0,3

