



**ÇİMSA**

**RECIPRO40+**  
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# RECIPRO40+



FAST REACTION + ENHANCED WATER RETENTION



Recipro40+ has been developed to meet the primary need of calcium aluminate cement users in dry-mix applications: fast reaction. The product is engineered to deliver accelerated hydration in dry-mix formulations, ensuring high early strength performance.

Additionally, Recipro40+ has been optimized to increase water retention within the system, helping mortars achieve ideal rheology properties. When used in ternary systems, it reduces the need for chemical admixtures, enabling more balanced and efficient formulations.

To ensure maximum reaction speed at early ages, the particle size distribution of Recipro40+ has been carefully optimized, meeting the early strength requirements of dry-mix users.

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



#### Physical and Mechanical

Physical and Mechanical	Çimsa Values [%]
Initial Set (hr)	1 - 4
Final Set	up to 120 minutes after initial set
Compressive Strength (MPa)	6 hr ≥ 40,0 / 24 hr ≥ 65,0
Specific Gravity (g/cm <sup>3</sup> )	≤3,3
Compressive Strength (MPa)	≤4,5
Residue at 90 microns (%)	≤0,4
Blaine (cm <sup>2</sup> /g)	≥3800

#### Chemical Composition

Al <sub>2</sub> O <sub>3</sub> (%)	CaO(%)	SiO <sub>2</sub> (%)	Fe <sub>2</sub> O <sub>3</sub> (%)	TiO <sub>2</sub> (%)	MgO (%)	SO <sub>3</sub> (%)	Na <sub>2</sub> Eq Alkali (%)	Cl-as ions (%)	S-as ions (%)
≥38,0	≤38,0	≤5.0	≤18.0	≤3.0	≤0.8	≤0.1	≤0.3	≤0,01	≤0,1

#### Phase Composition

Major Mineral Phase	: CA
Minor Mineral Phases	: C <sub>12</sub> A <sub>7</sub> , C <sub>4</sub> AF

**45 MPa**

Recipro40+ reaches a compressive strength of 45 MPa within 6 hours.

**OPT**

The optimum rheology reduces the requirement for chemical admixtures.



For mortar testing in accordance with EN 14647, a mix prepared with CEN standard sand and a water-to-cement ratio of 0.40 is used.

# ADVANTAGES



## **ADJUSTABLE SETTING TIME IN TECHNICAL MORTARS**

The Recipro40+ range offers the most suitable structure for modern technical mortars, especially in ternary systems. Applicators can adjust the initial setting according to project requirements and achieve early strength within the first minutes.



## **MAXIMUM STRENGTH**

Recipro40+ maximizes the ultimate strength of mortars in both general use and ternary systems. Its optimized structure ensures long-lasting and high-performance solutions.



## **OPTIMUM WATER RETENTION RATE**

Recipro40+ has been developed to provide high reactivity among Çimsa's CAC products. Its optimum water retention feature meets the expectations of construction chemical manufacturers by improving mortar rheology. This reduces the risk of backflow (rebound) and ensures more uniform spreading, especially in self-leveling screeds.



## **HIGH WEAR RESISTANCE**

Thanks to its dense and stable phase structure, Recipro40+ offers excellent abrasion resistance in self-leveling screeds, tile applications, and specialty concretes. When combined with Rego, the overall abrasion resistance of the system is further enhanced.



## **FAST DRYING**

The drying time of self-leveling screeds is a critical parameter for construction chemical manufacturers. Recipro40+ promotes early drying in technical mortars, enabling faster commissioning and optimized project timelines.



## **LOW CHROMIUM +6 VALUE**

High chromium (VI) levels can cause skin sensitivity and irritation upon contact with cement. According to EU regulations, all cement products must contain less than 2 ppm of chromium (VI). Recipro40+ naturally meets this requirement, providing safer handling and compliance with health standards.



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