



1 GENERAL INFORMATION

Recipro50 is a calcium aluminate cement product which is specifically designed for dry-mix producers by Çimsa Research and Application Center.

Recipro50 offers various advantages to building chemicals applications such as;

- Lighter colored than 40-alumina cement,
- Short drying time,
- Easy application in winter conditions even under the freezing point (up to -5°C),
- Optimum viscosity,
- High abrasion resistance.

2 APPLICATION AREAS

Recipro50's some application areas are;

- Repair mortars,
- Self - leveling mortars,
- Plug mortar products,
- Grout products,
- Fast setting tile adhesives,
- Fast setting joint filler,
- Light colored technical mortars,

3 PRODUCTION

Çimsa Aluminates products are produced in L-shaped kilns by fused method with the special cooling system.

After cooling, clinker is ground in ball mills and packaging is done.

4 PHASE COMPOSITION

Major Mineral Phase : CA

Minor Mineral Phases : C₁₂A₇, C₄AF

5 CHEMICAL COMPOSITION

Al ₂ O ₃ (%)	CaO(%)	SiO ₂ (%)
≥49,0	≤38,8	≤5,0

Fe ₂ O ₃ (%)	TiO ₂ (%)	MgO (%)
≤2,5	≤3,5	≤0,8

MINOR COMPOSITION

SO ₃ (%)	Na 2Eq Alkali (%)	Cl-as ions (%)	S-as ions (%)
≤0,2	≤0,4	≤0,01	≤0,1

6 PHYSICAL AND MECHANICAL PROPERTIES

Initial Setting Time (min)	≥90
Final Setting Time	up to 120 minutes after initial set
Compressive Strength (MPa)	6 hr ≥ 18,0 24 hr ≥ 60,0

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.

Specific Gravity (g/cm ³)	≤3,1
Residue at 45 microns (%)	≤7,0
Residue at 90 microns (%)	≤0,3
Blaine (cm ² /g)	≥3800

7 QUALITY CONTROL

Çimsa Aluminates products are produced according to TS EN 14647 standard. Production processes are certified according to EN ISO 9001, EN ISO 45001 and EN ISO 14001.

8 SAFETY INSTRUCTIONS

Standard safety requirements for regular cements have to be followed. For more detailed information, please refer to the Safety Data Sheet of Recipro50.

9 STORAGE CONDITIONS AND SHELF LIFE

Recipro50 must be stored in dry and sheltered conditions, in its original, tightly sealed packaging. When stored under these conditions, the product retains its properties for up to 12 months. No more than 10 bags or 2 pallets should be stacked on top of each other. The product should always remain in its original packaging, and when not in use, the package must be tightly sealed.

