

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,
- Pipe coating and mining applications.

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 (%)	Fe ₂ O ₃ (%)
≥ 49.0	≤ 38.8	≤ 6.0	≤ 2.5

TiO ₂ (%)	MgO (%)	SO ₃ (%)	Na ₂ Eq Alkali (%)
≤ 4.0	≤ 0.8	≤ 0.2	≤ 0.4

6 PHYSICAL AND MECHANICAL PROPERTIES

Initial Set (min)	≥ 300	EN 196-3
Final Set (min)	≤ 500	EN 196-3
Specific Gravity (g/cm ³)	≤ 3.03	EN 196-6
Compressive Strength (MPa)	6 hr ≥ 20.0 24 hr ≥ 60.0	EN 196-1
Residue at 45 microns (%)	≤ 7.0	EN 196-6
Residue at 90 microns (%)	≤ 4.0	EN 196-6
Whiteness-Y microns (%)	35-50	EN 196-6
Blaine (cm ² /g)	≥ 3500	EN 196-6

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 further 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 this case, it will retain its properties for a minimum of 6 months. No more than 10 bags or 2 pallets should be stacked on top of each other. The product must be stored in its original package. When it is not in use, the mouth of the package must be tightly closed.