



1 GENERAL INFORMATION

Recipro40 is a calcium aluminate cement product which is specifically designed for building chemicals producers by Çimsa Research and Application Center.

Recipro40 offers various advantages to drymix applications such as;

- High early and final strength.
- Adjustable setting time.
- Short drying time.
- Easy applicability even at air temperatures of -5 °C.
- Optimum viscosity.
- High abrasion resistance.

2 APPLICATION AREAS

Recipro40's some application areas are;

- Repair mortars.
- Self - leveling mortars.
- Plug mortar products.
- Fast setting tile adhesives.
- Fast setting joint filler.
- Grout products.
- 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 (%)
≥ 38.0	≤ 40.0	≤ 5.0	≤ 19.0

TiO ₂ (%)	MgO (%)	SO ₃ (%)	Na ₂ Eq Alkali (%)
≤ 3.0	≤ 1.0	≤ 0.2	≤ 0.3

6 PHYSICAL AND MECHANICAL PROPERTIES

Initial Set (min)	≥ 150	EN 196-3
Final Set (min)	≤ 3.30	EN 196-3
Specific Gravity (g/cm ³)	≤ 3.2	EN 196-6
Compressive Strength (MPa)	6 hr ≥ 20.0 24 hr ≥ 60.0	EN 196-1
Residue at 45 microns (%)	≤ 20	EN 196-6
Residue at 90 microns (%)	≤ 4.0	EN 196-6
Blaine (cm ² /g)	≥ 3.000	EN 196-6

7 QUALITY CONTROL

Çimsa Aluminates products are produced according to 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 **Recipro40**.

9 STORAGE CONDITIONS AND SHELF LIFE

Recipro40 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 according to previous studies. The product must be stored in its original package. When it is not in use, the mouth of the package must be tightly closed.