



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 dry mix 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	≤18.0

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

6 PHYSICAL AND MECHANICAL

Initial Set (min)	≥180	EN 196-3
Final Set (min)	≤330	EN 196-3
Specific Gravity (g/cm ³)	≤3.3	EN 196-6
Compressive Strength (MPa)	6hr ≥ 35.0 24 hr ≥ 60.0	EN-196-1
Residue at 45 microns (%)	≤10	EN 196-6
Residue at 90 microns (%)	≤2.0	EN 196-6
Blaine (cm ² /g)	≥3000	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 Recipro40.

9 STORAGE CONDITIONS AND SHELF LIFE

Recipro40 must be stored in dry and sheltered conditions. Under these conditions, it retains its properties for a minimum of 6 months. Based on previous experience, its properties can be preserved for more than 12 months when stored properly. No more than 10 bags or 2 pallets should be stacked on top of each other. The product must be stored in its original packaging. When not in use, the package must be tightly sealed.

