



1 GENERAL INFORMATION

Recipro40+ is a calcium aluminat cement product which is specifically designed for dry-mix producers by Çimsa Research and Application Center.

Recipro40+ offers various advantages to building chemicals applications such as;

- Better early and final strength,
- Improved water retention,
- Adjustable setting time,
- Shorter drying time,
- Optimum viscosity,
- Adjustable workability time,
- Higher abrasion resistance.

2 APPLICATION AREAS

Recipro40+'s some application areas are;

- Repair mortars,
- Self - leveling mortars,
- Plug mortar products,
- Grout products,
- Fast setting tile adhesives,
- Fast setting joint filler,
- Pipe coating,
- 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 FAZ KOMPOZİSYONU

Major Mineral Phase : CA

Minor Mineral Phases : $C_{12}A_7$, C_4AF

5 CHEMICAL COMPOSITION

Al ₂ O ₃ (%)	CaO (%)	SiO ₂ (%)	Fe ₂ O ₃ (%)
≥ 38.0	≤ 38.0	≤ 5.0	≤ 18.0

TiO ₂ (%)	MgO (%)	SO ₃ (%)	Na ₂ Eq Alkali (%)
≤ 3.0	≥ 0.8	≤ 0.1	≤ 0.3

6 PHYSICAL AND MECHANICAL PROPERTIES

Initial Set (min)	≥ 150	EN 196-3
Final Set (min)	≥ 350	EN 196-3
Specific Gravity (g/cm ³)	≤ 3.2	EN 196-6
Compressive Strength (MPa)	6 hr ≥ 45 24 hr ≥ 65	EN 196-1
Residue at 45 microns (%)	≤ 4.5	EN 196-6
Residue at 90 microns (%)	≤ 0.4	EN 196-6
Blaine (cm ² /g)	≥ 4.000	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. 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. Based on previous studies, its properties for more than one year observed to be preserved for a long time. The product must be stored in its original package. When it is not in use, the mouth of the package must be tightly closed.