



1 GENERAL INFORMATION

Recipro40-S is a high-performance calcium aluminate cement developed by Çimsa's Research and Application Center. This product is specifically designed to maximize ettringite formation in both fluid and non-fluid dry mix mortars as part of a binary binder system. It achieves the ideal ettringite stoichiometry when combined with a suitable calcium sulfate source, without the need for Portland cement. Its light off-grey color provides a noticeable aesthetic in dry mix mortars and creates visual distinction in application areas. Recipro40-S maintains high performance even under varying environmental conditions, offering substantial volume stability after application.

Recipro40-S offers various advantages to dry-mix applications such as;

- Optimal Ettringite Formation
- Designed for Binary Formulations
- Adjustable Setting Time
- High Volume Stability
- Easy Application in Winter Conditions

2 APPLICATION AREAS

Refro40's some application areas are;

Recipro40-S is recommended for using in binary systems.

Recipro40-S application areas are;

- Repair mortars,
- Self - leveling mortar,
- Grout products,
- Quick setting tile adhesive,
- Quick setting joint filler,
- 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 : $C_{12}A_7$,

5 CHEMICAL COMPOSITION

Al ₂ O ₃ (%)	CaO(%)	SiO ₂ (%)	Fe ₂ O ₃ (%)
≥35,0	≤52,0	≤6,0	≤9,0

MINOR COMPOSITION

Cl-as ions (%)	S-as ions (%)
≤0,01	≤0,1

6 PHYSICAL AND MECHANICAL PROPERTIES

L (Lightness)	53-57
a (Greenness)	2,3-2,8
b (Yellowness)	10,0-12,0
Specific Gravity (g/cm ³)	≤3,05
Residue at 90 microns (%)	<5,0

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-S.

9 STORAGE CONDITIONS AND SHELF LIFE

Recipro40-S 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.

