



1 GENERAL INFORMATION

Isidaç40 is a calcium aluminate cement product which is specifically designed for building chemicals producers by Çimsa Research and Application Center.

Isidaç40 offers various advantages to building chemicals applications such as;

- High early and final strength,
- Adjustable setting time,
- Thermal resistance up to 1300 °C,
- High abrasion resistance.

2 APPLICATION AREAS

Isidaç40's some application areas are;

- Building chemicals applications,
- Refractory applications,
- 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 PHASE COMPOSITION

Major Mineral Phase : CA

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

5 CHEMICAL COMPOSITION

Al_2O_3 (%)	CaO(%)	SiO_2 (%)	Fe_2O_3 (%)
≥38.5	≤38.0	≤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

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 (%)	≤10.0	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 more detailed information, please refer to the Safety Data Sheet of Isidaç40.

9 STORAGE CONDITIONS AND SHELF LIFE

Isidaç40 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.

