



1 GENERAL INFORMATION

Çimsa Super White Cement (CEM I 52.5R) is preferred in more than 70 countries in the world with its stability and high strength.

The advantages offered by **Çimsa Super White** Cement to the Applications;

- High early and final strength,
- Fast production possibility,
- High whiteness,
- Low alkali content.

2 APPLICATION AREA

Çimsa Super White Cement application areas are;

- Construction chemical productions,
- Precast productions,
- Terrazzo tile productions,
- Pumice productions,
- Autoclaved aerated concrete productions,
- Exposed concrete.

3 PRODUCTION

Stability is the focal point of the Çimsa production plants and the variability in the product parameters is minimized by the controls at each stage during the process from raw material to delivery. Production processes are certified according to EN ISO 9001 and EN ISO 18001 standards.

4 PHASE COMPOSITION

Main mineral Phases : C₃S, C₂S

Auxiliary Mineral Phases: C₃A

5 WHITENESS

Whiteness of the **Çimsa Super White** Cement is done according to L, a, b, and Y values with regard to Hunter Lab systematic.

L (Brightness)	92.2
a (Greenness)	-1.65
b (Yellowness)	2.90
Y (Whiteness)	85,0

6 CHEMICAL FEATURES

Features	Çimsa Values	Standart Limits (EN 197-1)	
		Min.	Max.
Insoluble Residue	0.18 %	-	5.0
SiO ₂	21.6 %	-	-
Al ₂ O ₃	4.05 %	-	-
Fe ₂ O ₃	0.28 %	-	-
CaO	65.7 %	-	-
MgO	1.30 %	-	-
SO ₃	3.50 %	-	4.0
Ignition Loss	3.50 %	-	5.0
Na ₂ O	0.30 %	-	-
K ₂ O	0.35 %	-	-
Chlorine (Cl)	0.01 %	-	-
Free CaO	2.20 %	-	-

7 PHYSICAL AND MECHANICAL FEATURES

Features	Çimsa Values	Standart Limits (EN 197-1)	
		Min.	Max.
Specific Gravity	g/cm ³ 3.06	-	-
Blaine	cm ² /g 4600	-	-
Whiteness Y	% 85.5	-	-
Vicat Initial Set	Minute 100	45.0	-
Vicat Final Set	Minute 130	-	-
Water	30.0 %	-	-
Stability (Le Chatelier)	mm 1.0	-	10.0
Residue at 45 (microns)	1.0 %	-	-
Residue at 90 (microns)	0.1 %	-	-
Compressive Strength (2 days)	MPa 37.0	30.0	-
Compressive Strength (7 days)	MPa 50.0	-	-
Compressive Strength (28 days)	MPa 60.0	52.5	-

8 QUALITY CONTROL

Çimsa Super White Cement is subject to quality control conforming to EN 197-1 standards. It is presented to foreign markets with CE certified.

9 SAFETY INSTRUCTIONS

Standard safety requirements for general cements are followed. Please refer to the **Çimsa Super White** Cement Safety Data Sheet for more information.

10 STORAGE CONDITIONS AND SHELF LIFE

Çimsa Super White Cement must be stored in dry and sheltered conditions. In this case, it will retain its properties for at least 6 months. No more than 10 bags or 2 pallets should be stacked in a row. The product must be stored in its original package. In cases where it is not used, the mouth of the package must be tightly closed.