



1 GENERAL INFORMATION

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

Key advantages of Çimsa Super White Cement include:

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

2 APPLICATION AREA

Application areas of Çimsa Super White Cement include:

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

3 PRODUCTION

Stability is a focal point of the Çimsa production plants and the variability in the product parameters is minimized through strict control at each stage, from raw materials to delivery. Production processes are certified according to EN ISO 9001, EN ISO 45001, EN ISO 14001, EN ISO 50001, and ISO 10002 standards.

4 CHEMICAL FEATURES

Features	Çimsa Values (%)	Standart Limits (EN 197-1)	
		Min	Max
Insoluble Residue	0.20	-	5,0
SiO ₂	21.4	-	-
Al ₂ O ₃	4.05	-	-
Fe ₂ O ₃	0.28	-	-
CaO	66.0	-	-
MgO	1.10	-	-
SO ₃	3.30	-	4.0
Ignition Loss	3.20	-	5.0
NA ₂ O	0.20	-	-
K ₂ O	0.50	-	-
Chloride (Cl)	0.01	-	0.1
Free CaO	1.80	-	-

5 PHYSICAL AND MECHANICAL

Features	Çimsa Values	Standart Limits (EN 197-1)	
		Min	Max
Specific Gravity	g/cm ³ 3.04	-	-
Blaine	cm ² /g 4600	-	-
Whiteness (Y)	85.5 %	-	-
Vicat Initial Set	100 min	45	-
Vicat Final Set	130 min	-	-
Water	30.0 %	-	-
Stability (Le Chatelier)	mm 1.0	-	10
Residue at 45 (microns)	1.5 %	-	-
Residue at 90 (microns)	0.1 %	-	-
2-Day Compressive Strength	MPa 37	30	-
7-Day Compressive Strength	MPa 50	-	-
28-Day Compressive Strength	MPa 60	52.5	-

6 PHASE COMPOSITION

Main Mineral Phases : C₃S, C₂S
Auxiliary Mineral Phases : C₃A

7 WHITENESS

L (Brightness)	92.2
a (Greenness)	-1.30
b (Yellowness)	3.30
Y (Whiteness)	85.0

8 QUALITY CONTROL

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

9 SAFETY INSTRUCTIONS

Standard safety requirements related to general cement are obeyed. For more information, please see Çimsa Super White Cement Safety Data Sheet.

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. Experience has shown that it keeps its properties for more than one year. The height of stack should not be more than 2 pallets or 10 bags. The product should be contained in its original package. In cases where it is not used, the mouth of the package must be tightly closed.