

TECHNICAL DATA SHEET

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

Cimsa Super White Cement application areas are;

- · Construction chemical productions,
- · Precast productions,
- · Terrazzo tile productions,
- · Pumice productuctions,
- · 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 : C_3S , C_2S Auxiliary Mineral Phases: C_3A

5 WHITENESS

Whiteness of **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

Revision Date : 01.08.2018 Revision Number : 001

6 CHEMICAL FEATURES

Features	Çimsa Values		Standart Limits (EN 197-1)	
			Min.	Max.
Insoluble Residue	%	0,18	-	-
SiO ₂	%	21,6	-	-
Al ₂ O ₃	%	4,05	-	-
Fe ₂ O ₃	%	0,26	-	-
CaO	%	65,7	-	-
MgO	%	1,30	-	-
SO₃	%	3,30	-	4,0
Ignition Loss	%	3,20	-	5,0
Na ₂ O	%	0,30	-	-
K₂O	%	0,35	-	-
Klorür (Cl ⁻)	%	0,01	-	0,1
Free CaO	%	1,60	-	-

7 PHYSICAL AND MECHANICAL FEATURES

Features	Çimsa Values		Standard Limits (EN 197-1)	
			Min.	Max.
Specific Gravity	gr/cm³	3,06	-	-
Blaine	cm²/gr	4600	-	-
Whiteness Y	%	85,5	85,0	-
Vicat Initial Set	Dakika	100	45,0	-
Vicat Final Set	Dakika	130	-	-
Water	%	30,0	-	-
Volume 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 certificate.

9 QUALITY CONTROL

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. Package should be kept tightly when not in use.



THE NAME OF THE FORMULA