

ÇİMSA ECOSHINE



TECHNICAL DATA SHEET

1 GENERAL INFORMATION

Çimsa EcoShine CEM II / A-LL 52,5 R White Cement is a product that maintains high performance characteristics while having a low carbon emission footprint. Compared to Çimsa Super White Cement, its environmental impact is reduced, making it ideal for preparing sustainable cement-based mixtures. It provides superior performance with low carbon emissions without compromising on strength, whiteness, or quality.

Key Features:

- Low carbon emissions*
- High strength
- Low alkali content
- High whiteness

*Refers to reduced carbon emissions compared to Çimsa Super White cements.

2 APPLICATION AREA

Çimsa EcoShine CEM II A-LL 52.5R White Cement application areas are;

- High early and final strength,
- Fast production possibility,
- High whiteness,
- Low alkali content.
- 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, EN ISO 45001 and EN ISO 14001 standards.

4 PHASE COMPOSITION

Main Mineral Phases : C_3S, C_2S

Auxiliary Mineral Phases : C_3A

5 WHITENESS

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

L (Brighthness)	92,5
a (Greenness)	-1,50
b (Yellowness)	2,80
Y (Whiteness)	85,5

6 CHEMICAL FEATURES

Features	Çimsa Values	Standart Limits (EN 197-1)	
		Min.	Max.
SiO ₂	% 20,1	-	-
Al ₂ O ₃	% 3,63	-	-
Fe ₂ O ₃	% 0,25	-	-
CaO	% 64,80	-	-
MgO	% 1,36	-	-
SO ₃	% 3,52	-	4,0
Ignition Loss	% 5,50	-	-
Na ₂ O	% 0,24	-	-
K ₂ O	% 0,25	-	-
Chlorine (Cl)	% 0,002	-	0,1
Free CaO	% 1,80	-	-

7 PHYSICAL AND MECHANICAL FEATURES

Features	Çimsa Values	Standart Limits (EN 197-1)	
		Min.	Max.
Specific Gravity	gr/cm ³ 2,90	-	-
Blaine	cm ² /gr 4530	-	-
Whiteness Y	% 85,5	85,0	-
Vicat Initial Set	minute 95	45,0	-
Vicat Final Set	minute 120	-	-
Water	% 30,0	-	-
Stability (Le Cha telier)	mm 1,0	-	10,0
Residue at 45 (microns)	% 0,5	-	-
Residue at 90 (microns)	% 0,0	-	-
Compressive Strength (7 days)	MPa 37,0	30,0	-
Compressive Strength (2 days)	MPa 50,0	-	-
Compressive Strength (28 days)	MPa 60,0	52,5	-

8 QUALITY CONTROL

Çimsa EcoShine CEM II / A-LL 52,5 R 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 EcoShine White Cement Safety Data Sheet for more information.

10 STORAGE CONDITIONS AND SHELF LIFE

Çimsa EcoShine CEM II / A-LL 52,5 R 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.