



## 1 GENERAL INFORMATION

Çimsa EcoShine CEM II / A-LL 52.5 R white cement is a product that maintains high performance characteristics while offering 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. Superior performance is delivered 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 Cement.

## 2 APPLICATION AREA

**Application areas of Çimsa EcoShine CEM II/A-LL 52.5 R White Cement include:**

- High early and final strength,
- Fast production possibility,
- High whiteness,
- Low alkali content.
- 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	0.15	-	-
SiO <sub>2</sub>	18.5	-	-
Al <sub>2</sub> O <sub>3</sub>	3.60	-	-
Fe <sub>2</sub> O <sub>3</sub>	0.32	-	-
CaO	66.1	-	-
MgO	1.36	-	-
SO <sub>3</sub>	3.50	-	4.0
Loss on Ignition	7.20	-	-
Na <sub>2</sub> O	0.38	-	-
K <sub>2</sub> O	0.18	-	-
Chloride (Cl)	0.002	-	0.1
Free CaO	1.80	-	-

## 5 PHYSICAL AND MECHANICAL

Features	Çimsa Values	Standart Limits (EN 197-1)	
		Min	Max
Specific Gravity	g/cm <sup>3</sup> 3.00	-	-
Blaine	cm <sup>2</sup> /g 4600	-	-
Whiteness (Y)	85.5 %	-	-
Vicat Initial Set	105 min	45	-
Vicat Final Set	140 min	-	-
Water	29.5 %	-	-
Stability (Le Chatelier)	mm 1	-	10
Residue at 45 (microns)	0.7 %	-	-
Residue at 90 (microns)	0.0 %	-	-
2-Day Compressive Strength	MPa 35.5	30	-
7-Day Compressive Strength	MPa 49	-	-
28-Day Compressive Strength	MPa 59	52.5	-

## 6 PHASE COMPOSITION

**Main Mineral Phases** : C<sub>3</sub>S, C<sub>2</sub>S

**Auxiliary Mineral Phases** : C<sub>3</sub>A

## 7 WHITENESS

L (Brightness)	92.5
a (Greenness)	-1.50
b (Yellowness)	2.80
Y (Whiteness)	85.5

## 8 QUALITY CONTROL

Çimsa EcoShine 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 for general cements are followed. Please refer to the Çimsa EcoShine Cement Safety Data Sheet for more information

## 10 STORAGE CONDITIONS AND SHELF LIFE

Çimsa EcoShine 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.