



## 1 GENERAL INFORMATION

Çimsa EcoShine CEM II / A-LL 52.5 R white cement is a product that maintains high performance characteristics while having low carbon emissions. 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 strength, whiteness, and quality.

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

\*Compared to Çimsa Super White cement

## 2 SCOPE OF APPLICATION

**Some application areas of Çimsa EcoShine CEM II A-LL 52.5R white cement:**

- Construction chemicals,
- Precast manufacturing,
- Glass fiber reinforced concrete manufacturing,
- Terrazo tile manufacturing,
- Stair tread manufacturing,
- Aerated concrete manufacturing,
- Pumice manufacturing,
- Broad concrete manufacturing.

## 3 PRODUCTION

Stability is at the heart of Çimsa's production facilities, and variability in product parameters is minimized through controls at every stage of the process, from raw materials to delivery.

Production processes are certified according to EN ISO 9001, EN ISO 45001, EN ISO 50001, EN ISO 14001, and ISO 10002 standards.

## 4 CHEMICAL PROPERTIES

Features	Çimsa Values	Standard Limit (EN 197-1)	
		Min	Max
Insoluble Residue	% 0,15	-	-
SiO <sub>2</sub>	% 19,1	-	-
Al <sub>2</sub> O <sub>3</sub>	% 3,90	-	-
Fe <sub>2</sub> O <sub>3</sub>	% 0,25	-	-
CaO	% 65,8	-	-
MgO	% 1,36	-	-
SO <sub>3</sub>	% 3,50	-	4,0
Ignition Loss	% 6,50	-	-
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 PROPERTIES

Features	Çimsa Values	Standard Limit (EN 197-1)	
		Min	Max
Specific gravity	g/cm <sup>3</sup> 3,00	-	-
Blaine	cm <sup>2</sup> /g 4800	-	-
Whiteness (Y)	% 85,5	-	-
Initial Setting Time	Dakika 100	45	-
Final Setting Time	Dakika 130	-	-
Water Requirement	% 29,5	-	-
Volume Stability (Chatelier)	mm 1	-	10
Residue on a 45 Micron	% 1,5	-	-
Residue on a 90 Micron	% 0,1	-	-
2-Day Compressive Strength	MPa 37,0	30	-
7-Day Compressive Strength	MPa 50,0	-	-
28-Day Compressive Strength	MPa 59,0	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 (Greens)	-1,00
b (Yellowness)	3,70
Y (Whiteness)	85,5

## 8 QUALITY CONTROL

Çimsa EcoShine cement undergoes quality control in accordance with EN 197-1 standards. It is offered to international markets with CE certification.

## 9 SAFETY INSTRUCTIONS

Standard safety requirements for general cements are observed. For more information, please refer to the Çimsa EcoShine cement safety data sheet.

## 10 STORAGE CONDITIONS AND SHELF LIFE

Çimsa EcoShine White cement should be stored in dry and protected environments. In this condition, it retains its properties for a minimum of 6 months. Based on previous studies, it has been observed to retain its properties for more than a year. It should not be stacked more than 10 bags or 2 pallets high. The product should be stored in its original packaging. If not in use, the packaging should be tightly closed