



1 GENERAL INFORMATION

Çimsa Eco White Cement (CEM II/B-L 42.5R) is one of the whitest cements in the world, featuring low clinker content due to the use of marble in its composition and offering environmentally friendly properties

Key advantages of Çimsa Eco White Cement include:

- High whiteness,
- Low CO₂ emission,
- High durability,
- Low alkali content,
- High volume stability.

4 CHEMICAL FEATURES

Features	Çimsa Values (%)	Standart Limits (EN 197-1)	
		Min	Max
Insoluble Residue	0.12	-	-
SiO ₂	16.50	-	-
Al ₂ O ₃	3.20	-	-
Fe ₂ O ₃	0.23	-	-
CaO	63.50	-	-
MgO	1.0	-	-
SO ₃	2.80	-	4.0
Loss on Ignition	12.50	-	-
Na ₂ O	0.15	-	-
K ₂ O	0.40	-	-
Chloride (Cl)	0.01	-	0.1
Free CaO	1.50	-	-

6 PHASE COMPOSITION

Main Mineral Phases : C₃S, C₂S

Auxiliary Mineral Phases : C₃A

7 WHITENESS

L (Brightness)	93.0
a (Greenness)	-0.80
b (Yellowness)	3.90
Y (Whiteness)	86.5

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.

2 APPLICATION AREA

Application areas of Çimsa Eco White Cement include:

- Construction chemicals production,
- Glass fibre-reinforced concrete production,
- Terrazo tile production,
- Exposed concrete.

5 PHYSICAL AND MECHANICAL

Features	Çimsa Values	Standart Limits (EN 197-1)	
		Min	Max
Specific Gravity	g/cm ³ 2.98	-	-
Blaine	cm ² /g 5500	-	-
Whiteness (Y)	86.5 %	-	-
Vicat Initial Set	100 min	60.0	-
Vicat Final Set	130 min	-	-
Water	29.0 %	-	-
Stability (Le Chatelier)	mm 1.0	-	10.0
Residue at 45 (microns)	1.8 %	-	-
Residue at 90 (microns)	0.1 %	-	-
2-Day Compressive Strength	MPa 28,0	20.0	-
28-Day Compressive Strength	MPa 48.0	42.5	62.5

8 QUALITY CONTROL

Çimsa Eco 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 Eco White Cement Safety Data Sheet.

10 STORAGE CONDITIONS AND SHELF LIFE

Çimsa Eco 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.