

*ASTM C 150 TYPE I*

**SUPER WHITE**



**ÇİMSA**

# SUPER WHITE

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HIGH WHITENESS MEETS HIGH DURABILITY

42  
KG

92.6  
lb



Çimsa Super White Cement is a premium product preferred in more than 70 countries, offering exceptional whiteness, high strength, and consistent quality. Thanks to its optimal mix design, the product delivers outstanding performance in a wide range of applications such as swimming pools, plasters, dry mortars, construction chemicals, precast elements, glass fiber-reinforced concrete, lightweight concrete, autoclaved aerated concrete (AAC), terrazzo, and architectural concrete. Providing a minimum of 85% whiteness, it ensures color consistency and aesthetic excellence. Fast production capability and high early strength contribute to rapid project progress, while the low alkali content enhances long-term durability. From raw material selection to final delivery, Çimsa's rigorous quality controls minimize variability and guarantee reliable, long-lasting performance.

**ÇİMSA SUPER WHITE TYPE I IS PRODUCED IN ACCORDANCE WITH ASTM C150 AND HAS THE FOLLOWING FEATURES:**



Chemical Properties	Çimsa Values (%)	Standart Limits (ASTM C 150)	
		min	max
Insoluble Residue	0,20	-	1,50
SiO <sub>2</sub>	21,40	-	-
Al <sub>2</sub> O <sub>3</sub>	4,05	-	-
Fe <sub>2</sub> O <sub>3</sub>	0,28	-	-
CaO	66,00	-	-
MgO	1,10	-	6,00
SO <sub>3</sub>	3,30	-	3,50
Ignition Loss	3,20	-	3,50
Na <sub>2</sub> O	0,20	-	-
K <sub>2</sub> O	0,50	-	-
Chloride (Cl)	0,01	-	-
Free CaO	1,80	-	-
Na <sub>2</sub> O.Eq	0,53	-	0,60

#### Whiteness

L (Brightness)	92,2
a (Greenness)	(-1.30) - (-1.65)
b (Yellowness)	2.90 - 3.30
Y (Whiteness)	85,0

Physical Properties	Çimsa Values	Standart Limits (ASTM C 150)	
		min	max
Specific Gravity	3.04 g/cm <sup>3</sup>	-	-
Blaine	460 m <sup>2</sup> /g	260	-
Vicat Initial Set	85 min	45	-
Vicat Final Set	120 min	-	375
Water	27,50 %	-	-
Autoclave	0,02	-	0,80
Air Content	3,50 %	-	12,00
Residue at 45 (microns)	1,50 %	-	-
3-Day Compressive Strength	5200 PSI	1740	-
7-Day Compressive Strength	6000 PSI	2760	-
28-Day Compressive Strength	7000 PSI	4060	-



# ADVANTAGES



## **HIGH STABILITY**

The most important expectation of white cement users is that the cement properties are as stable as possible. Çimsa Super White provides not only whiteness, but also stability in strength, setting time, and grain size distribution – preventing performance variations in end products.



## **HIGH WHITENESS +++**

Çimsa Super White family products offer a minimum of 85% whiteness (Hunter Lab-Y Value). Super White helps prevent color variation in dry-mix and precast applications.



## **HIGH EARLY STRENGTH +++++**

Çimsa Super White provides long-lasting, value-added solutions for end users. With early strength exceeding 5200 psi and exceptional performance, it is the ideal product for specialized formulations.



## **HIGH FINAL STRENGTH +++++**

Çimsa Super White is the ideal product for the production of long-lasting and high-strength construction chemicals. Classified as ASTM Type I, Çimsa Super White exceeds 7000 psi in 28-day compressive strength, offering not only high early strength but also superior final performance.



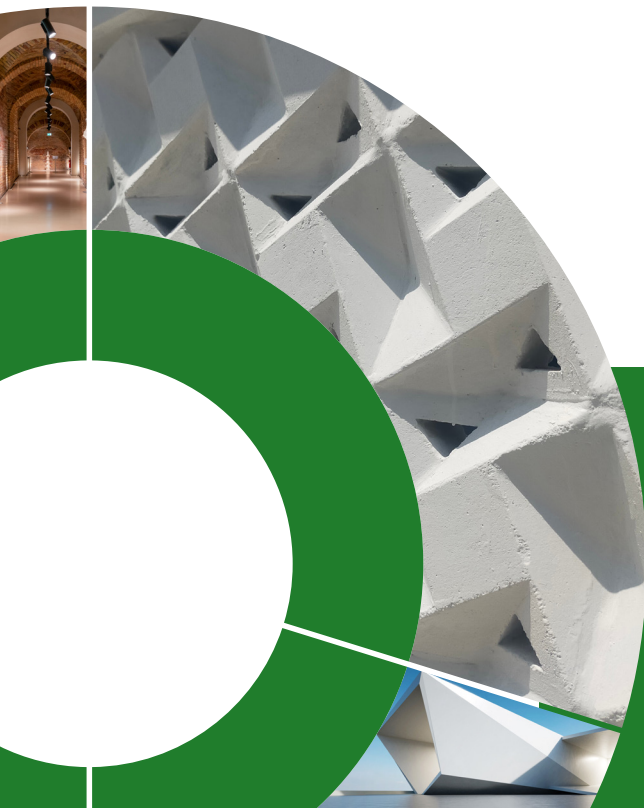
## **LOW CHROMIUM +6 CONTENT**

Chromium with a +6 valence in cement may cause health issues such as dermatitis. According to the 2003 EU Parliament regulation, the amount of Cr<sup>+6</sup> in all cement sold in the EU must be less than 2 ppm. Thanks to its special structure, Çimsa Super White contains chromium below this limit and does not harm human health.



## **LOW ALKALI CONTENT**

Portland cements with an equivalent alkali content above 0.6% may form alkali-silica gel when used with aggregates containing reactive silica, and the gel's excessive water absorption can lead to cracking in the hardened cementitious system. Çimsa Super White belongs to the class of cements resistant to alkali-silica reaction. Its equivalent alkali content is below the 0.6% limit.



### **Eskişehir Plant**

İstanbul Karayolu üzeri 22.km.  
Çukurhisar/Eskişehir  
T: (222) 411 32 00  
F: (222) 411 31 31

### **Mersin Plant**

Toroslar mah. Tekke cad. Yenitaşkent  
33250 Akdeniz/Mersin  
T: (324) 241 23 00  
F: (324) 454 00 25