

ADVANTAGES



HIGH STABILITY

The most important expectation of white cement users is that the cement properties are as stable as possible. **Çimsa, Super White** cement users not only in white; it also provides stability in strength, socket time and grain length distribution, preventing performance changes in end products.



HIGH WHITENESS +++

Çimsa Super White family products offer a minimum of 85% (Hunter Lab-Y Value) whiteness. Super White prevents color differences in dry mixing and precast applications.



HIGH EARLY STRENGTH ++++

Çimsa Super White provides long-lasting and value-added products to the end user thanks to its unique features, while thanks to its high early strength, it is the most suitable product for users' formulations.



HIGH FINAL STRENGTH +++

For long-lasting and high-strength building chemicals manufacturers, **Çimsa Super White** is the most suitable product. Although the Cem I is 52.5R, its strength reaches 60+ MPa and provides high final strength alongside high early strength.



LOW CHROMIUM +6 CONTENT

Chromium with +6 value in cement causes problems for human health and causes dermatitis, etc. As a result of the decision of the EU Parliament in 2003, the amount of chromium with a value of +6 of all cement sold in the European Union should be less than 2 ppm. As a result of the Special Structure of **Çimsa Super White**, it contains chromium below the limit value and does not harm human health.



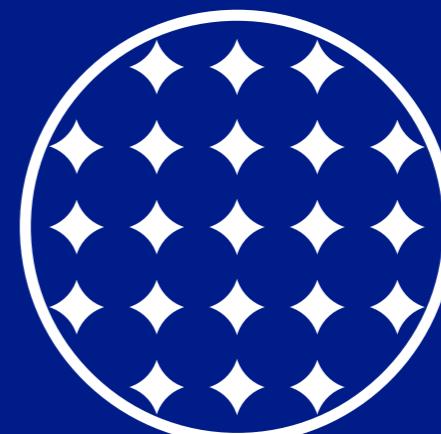
LOW ALKALI CONTENT

Portland cements with an equivalent alkaline amount of over 0.6% form silica gel when used in combination with silica-based aggregates, and the cemented system cracks by absorbing high levels of water. **Çimsa Super White** is in the class of cement resistant to alkaline-silica reaction. The equivalent alkaline ratio is below the limit value of 0.6%.

ÇİMŞA

THE NAME OF THE FORMULA

ÇİMŞA



SUPER WHITE

ÇİMŞA



HIGH STABILITY



HIGH WHITENESS +++



HIGH EARLY STRENGTH +++



HIGH FINAL STRENGTH +++



LOW CHROMIUM +6 CONTENT



LOW ALKALI CONTENT

ÇİMŞA
SUPER
WHITE

ÇİMŞA
SUPER
WHITE

A vertical decorative element on the left side of the page. It features a series of blue horizontal bars of varying lengths, with the longest bar at the top. Below these is a blue zigzag line that slopes downwards from left to right.

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HIGH WHITENESS + HIGH DURABILITY = **SUPERWHITE**

Çimsa Super White Cement (CEM I 52.5R) is preferred in more than 70 countries around the world with its high whiteness value, stability and high strength. Building chemicals, precast manufacturing, glass fiber additive concrete production, bims, gazbeton, terrazo tile and gross concrete production provide users with an unequal advantage with optimum prescription design.

Stability is the focal point of Çimsa production facilities and variability in product parameters is minimized with the controls at each stage in the process from raw material to delivery. Production processes are certified according to EN ISO 9001, EN ISO 18001 and EN ISO 14001 standards.



High Early and Ultimate Strength



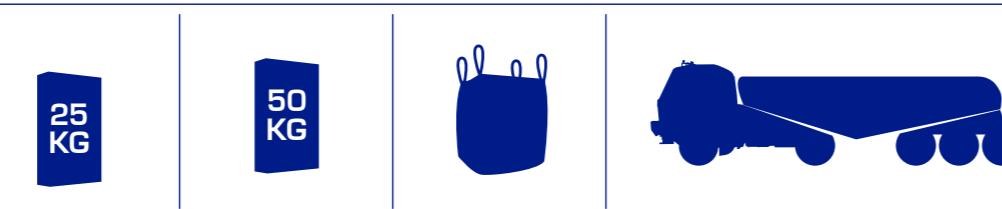
High Whiteness



Quick Manufacturing Possibility



Low Alkaline Content



**ÇIMSA SUPER WHITE (CEM I 52,5 R) IS PRODUCED ACCORDING TO EN 197-1
TS21 STANDARDS AND HAS THE FOLLOWING FEATURES**

CHEMICAL PROPERTIES	CIMSA VALUES		EN 197-1 LIMITS Min. Max.	PHYSICAL PROPERTIES	CIMSA VALUES		EN 197-1 LIMITS Min. Max.
	%	gr/cm ³			gr/cm ³	%	
Insoluble Residue (%)	%	0,18	-	5,0	Specific Gravity	gr/cm ³	3,06 - -
SiO ₂	%	21,6	-	-	Blaine	cm ² /gr	4600 - -
Al ₂ O ₃	%	4,05	-	-	Whiteness Y	%	85,5 - -
Fe ₂ O ₃	%	0,26	-	-	Initial Set	Minute	100 45,0 -
CaO	%	65,7	-	-	Final Set	Minute	130 - -
MgO	%	1,30	-	-	Water Volume	%	30,0 - -
SO ₃	%	3,50	-	4,0	Stability (Le Chatelier)	mm	1,0 - 10,0
Ignition Loss	%	3,50	-	5,0	Residue at 45 (microns)	%	1,0 - -
Na ₂ O	%	0,30	-	-	Residue at 90 (microns)	%	1,3 - -
K ₂ O	%	0,35	-	-	Compressive Strength (2 days)	MPa	37,0 30,0 -
Chloride (Cl)	%	0,01	-	0,1	Compressive Strength (7 days)	MPa	50,0 - -
Free CaO	%	2,20	-	-	Compressive Strength (28 days)	MPa	60,0 52,5 -

