



Ultra White Cement CEM I 52,5R (Bagged)

TECHNICAL DATA SHEET

1 GENERAL INFORMATION

Mannok Ultra White Cement is the first product manufactured and supplied by our new associated company, Çimsa, to be sold under the Mannok brand. Produced at Çimsa's Mersin Cement Factory in Turkey, this premium product adds to Mannok's extensive portfolio available throughout the UK and Ireland. With exceptional stability and high strength Mannok Ultra White Cement brings these important advantages to applications for the UK marketplace:

- High Early and Final Strength
- Superior Aesthetic Appeal
- High Whiteness
- Low Alkali Content



2 APPLICATION AREA

Mannok Ultra White Cement application areas are:

- Precast Concrete Applications
- Decorative Architectural Elements
- Masonry Work
- Flooring
- Tile Adhesives & Grouts

3 PRODUCTION

Consistency is the focal point of the Mannok/Çimsa production plants and the variability in the product properties is minimized by the controls at each stage during the process from raw material to delivery. Production processes are certified according to EN ISO 9001 and EN ISO 18001 standards.

4 PHASE COMPOSITION

Main mineral Phases: C_3S , C_2S

Auxiliary Mineral Phases: C_3A

5 WHITENESS

Whiteness of the Mannok Ultra White Cement is done according to L, a, b, and Y values with regard to Hunter Lab systematic.

L (Brightness)	92.2	a (Greenness)	-1.65	b (Yellowness)	2.90	Y (Whiteness)	85,0
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6 CHEMICAL FEATURES

FEATURES	Insoluble Residue	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	CaO	MgO	SO ₃	Ignition Loss	Na ₂ O	K ₂ O	Chlorine (Cl)	Free CaO
ÇİMSA VALUES	0.18%	21.6%	4.05%	0.28%	65.7%	1.30%	3.50%	3.50%	0.30%	0.35%	0.01%	2.20%
STANDARD LIMITS (EN 197-1)	MIN	-	-	-	-	-	-	-	-	-	-	-
	MAX	5.0	-	-	-	-	4.0	5.0	-	-	-	-

7 PHYSICAL AND MECHANICAL FEATURES

FEATURES	Specific Gravity	Blaine	Whiteness Y	Vicat Initial Set	Vicat Final Set	Water	Stability (Le Chatelier)	Residue at 45 (microns)	Residue at 90 (microns)	Compressive Strength (2 days)	Compressive Strength (7 days)	Compressive Strength (28 days)
ÇİMSA VALUES	3.06 g/cm ₃	4600 cm ₂ /g	85.5 %	100 minute	130 minute	30.0 %	1.0 mm	1.0 %	0.1 %	37.0 mpa	50.0 mpa	60.0 mpa
STANDARD LIMITS (EN 197-1)	MIN	-	-	-	45.0	-	-	-	-	30.0	-	52.5
	MAX	-	-	-	-	-	10.0	-	-	-	-	-

8 QUALITY CONTROL

Mannok Ultra White Cement is subject to quality control conforming to EN 197-1 standards. It is CE certified.

9 SAFETY INSTRUCTIONS

Standard safety requirements for general cements are followed. Please refer to the Mannok Ultra White Cement Safety Data Sheet for more information.

10 STORAGE CONDITIONS AND SHELF LIFE

Mannok Ultra White 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.