



ÇİMSA

CLASSIC PRO 52,5

ASTM C150



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HIGH STRENGTH, MAXIMUM EFFICIENCY



Çimsa Classic 52.5 is a high-performance Portland cement that delivers superior strength and stability. The product provides reliable performance in building reinforcement projects and ensures maximum strength in final concrete applications. Designed for thin-section reinforced concrete elements, high-strength concrete, prestressed concrete, and concrete sleeper production. Suitable for metro tunnels and precast element manufacturing, where early formwork removal is essential, ensuring high productivity and accelerated construction cycles. With stable color retention, the cement offers an aesthetic appearance in architectural concrete applications. An ideal choice for projects requiring high early strength, consistent performance, and production efficiency.

ÇİMSA CLASSIC PRO 52.5 (TYPE I) PORTLAND CEMENT IS PRODUCED IN ACCORDANCE WITH THE ASTM C 150 STANDARD AND HAS THE FOLLOWING CHARACTERISTICS:



Chemical Properties	Çimsa Values (%)	Methods	Standard Limits (ASTM C 150)	
			min	max
L.O.I	2.50- 3.30	ASTM-C114	-	3,5
Free Lime	1.00-2.00		-	-
I.R	0.20-0.50		-	1,5
SiO ₂	19.0-21.0	XRF	-	-
Al ₂ O ₃	4.5-5.5		-	-
Fe ₂ O ₃	2.0-3.0		-	-
CaO	61-64		-	-
MgO	2-3		-	6,0
SO ₃	2.5-2.90		-	3,0
Na ₂ O	0.30-0.40		-	-
K ₂ O	0.80-1.0		-	-
Na ₂ O.Eq	0.90-1.0		-	-

Clinker Mineralogical Composition	Çimsa Values (%)	Methods	Standard Limits (ASTM C 150)	
			min	max
C3S	> 60	Bogue Formula	-	-
C2S	< 15		-	-
C3A	< 8		-	8.00
C4AF	> 10		-	-

Physical Properties	Çimsa Values	Methods	Standard Limits (ASTM C 150)	
			min	max
Specific Surface (Blaine)	310-350	ASTM C-185, 151, 191	260	-
Residue on 0.045 mm Sieve	2.0-4.0		-	-
Air Content	3.0-4.0		-	12.0
Autoclave	0.01-0.02		-	0,8
Initial Setting Time	160-210	ASTM C-109	45	-
Final Setting Time	210-270		-	375
Compressive Strength	4200	ASTM C-109	1740	-
	5100		2760	-
	6000		4060	-



ADVANTAGES



FAST PRODUCTION CAPABILITY

High early strength development shortens formwork removal time and increases production speed. Time savings in prefabricated element manufacturing support overall efficiency. An ideal solution for projects with intensive production schedules.



MAXIMUM STRENGTH

High final compressive strength at 28 days provides a solid foundation for durable structures. Portland cement with a 52.5 strength class ensures consistent performance in accordance with the TS EN 197-1 standard.



HIGH DURABILITY

Contribution to structural strength extends the service life of buildings and reduces maintenance costs. Long-term resistance against environmental effects, chemical attacks, and mechanical stresses ensures durable performance over time.



HIGH EARLY STRENGTH

High early compressive strength enables rapid load-bearing capacity in structural elements. Quick strength development within the first two days accelerates formwork cycles. Offers an advantage in projects where timing is critical.



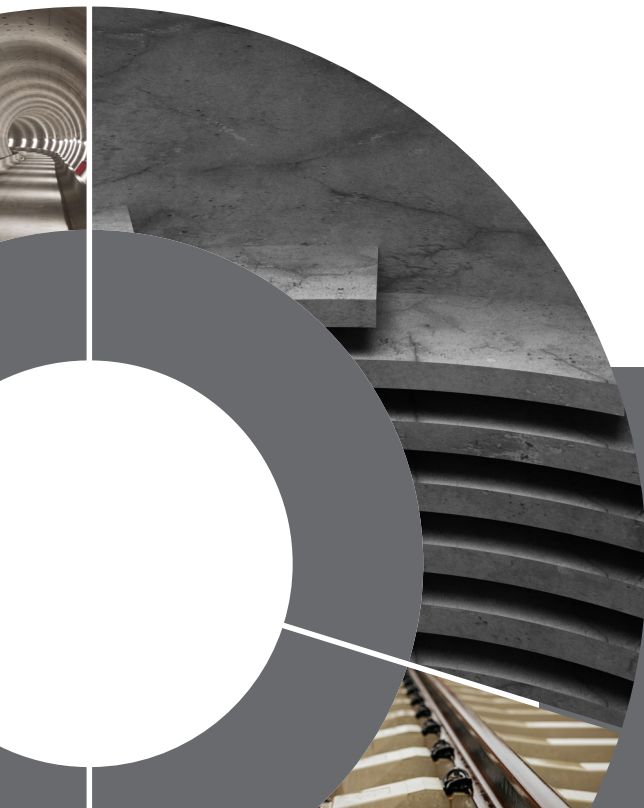
HIGH FINAL STRENGTH

The 52.5 strength class guarantees the integrity of concrete design. Suitable for all concrete classes, maintaining long-term strength continuity for durable and reliable structures.



SUITABLE FOR PRECAST PRODUCTION

Early strength gain offers ideal solutions for precast manufacturing. Easily integrates into fast operational processes, providing time and cost efficiency in repeated formwork cycles.



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