CEM I 52,5 R

CLASSIC PRO 52,5

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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.

ÇIMSA CLASSIC PRO 52.5 (CEM I 52.5 R) PORTLAND CEMENT IS PRODUCED IN ACCORDANCE WITH THE TS EN 197-1:2012 STANDARD AND HAS THE FOLLOWING CHARACTERISTICS:

Chemical Properties	Çimsa Values (%)	Standard Limits (EN 197-1)	
		min	max
Insoluble Residue	0.2 – 0.5	-	5,0
SiO_2	19.0 – 21.0	-	-
Al_2O_3	4.5 – 5.5	-	-
Fe_2O_3	2.0 – 3.0	-	-
CaO	61 – 64	-	-
MgO	2 – 3	-	-
SO_3	2.80 – 3.40	-	4,0
Loss on Ignition	2.0 – 3.5	-	5,0
Na_2O	0.2 – 0.4	-	-
K_2O	0.7 – 1.0	-	-
Chloride (Cl)	0.01 – 0.02	-	0,1

Physical Properties	Çimsa Values	Standard Limits (EN 197-1)	
		min	max
Specific Weight	3.15 gr/cm3	-	-
Specific Surface (Blaine)	3100-3500 cm²/gr	-	-
Initial Setting	180-250 Minutes	45	-
Final Setting	240-290 Minutes	-	-
Water	29-31%	-	-
Soundness (Le Chatelier)	1.0 mm	-	10
0.045mm Residue on Sieve	2-4%	-	-
2-Day Compressive Strength	30-34 MPa	30	-
28-day Compressive Strength	53-56 MPa	52,5	-

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

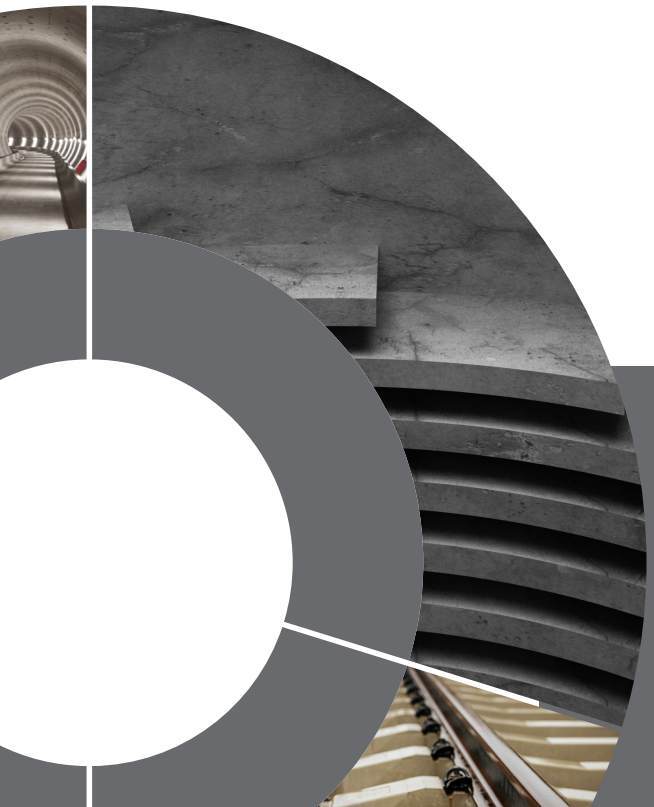
High early compressive strength enables rapid load-bearing capacity in structural elements. Quick strength development within the first two days accelerates formwork cycles. Offers an advantage in projects where timing is critical.

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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