

1 GENERAL INFORMATION

Çimsa Master Power CEM IV/B (P-Q) 32.5 N pozzolanic cement comprises the Portland cement clinker, trass, calcined pozzolan, and gypsum in accordance with the TS EN 197-1:2012 standard. Workability, consistency, and finish properties have been enhanced for plaster-mortar applications.

Advantages in applications;

- With its low density, the product increases the yield in plaster-mortar productions.
- The product is resistant to moisture in exterior facade plasters due to its trass and calcined pozzolan content.
- The inclusion of a thin filling material reduces the risk of thermal cracks.
- The product exhibits resistance to cracking through its low shrinkage property in screed concretes.
- The product is compatible with building limes and plasticizing additives.
- The product adheres to the chromium (VI) guidelines, thereby reducing the risk of allergic dermatitis upon contact.
- As a sustainable product, it safeguards the environment, especially through the use of recycled content, reduced waste, and improved energy efficiency.

2 AREAS OF APPLICATION

Çimsa Master Power portland composite cement is suitable for use in various building applications such as plaster, mortar, leveling screed, coating, insulation, tile and ceramic adhesive.

3 PRODUCTION

Stability remains the central focus at Cimsa's production facilities, with product parameter variations minimized through controls carried out at every process stage, from raw materials to delivery. The production processes hold certifications compliant with EN ISO 9001, EN ISO 14001, EN ISO 50001, ISO 10002, and ISO 45001 standards.

4 CHEMICAL PROPERTIES

Features	Çimsa Values (%)	Standard Limits (EN 197-5)	
		Min	Max
Insoluble Matter	40.5	-	-
SiO ₂	31.5	-	-
Al ₂ O ₃	9.0	-	-
Fe ₂ O ₃	2.70	-	-
CaO	43.3	-	-
MgO	1.45	-	-
SO ₃	2.90	-	3.5
Loss on Ignition	4.80	-	-
Na ₂ O	0.80	-	-
K ₂ O	0.70	-	-
Chloride (Cl)	0.04	-	0.10
Pozzolanic Feature	Provides the test	-	-

5 PHYSICAL PROPERTIES

Properties	Çimsa Values	Standart Limit (EN 197-5)	
		Min	Max
Specific Gravity	2.89 gr/cm ³	-	-
Specific Surface (Blaine)	4900 cm ² /gr	-	-
Initial Setting	200 min	75	-
Final Setting	270 min	-	-
Water	%28.5	-	-
Volume Constancy (Le Chatelier)	1.0 mm	-	10
0.045 mm Retained Material	%7.0	-	-
2-Day Compressive Strength	13 MPa	-	-
7-Day Compressive Strength	24 MPa	16.0	-
28-Day Compressive Strength	37 MPa	32.5	52.5

6 QUALITY CONTROL

Çimsa Master Power cement undergoes quality control in accordance with EN 197-5 standards. The product is available in both domestic and foreign markets with a CE certificate.

7 SAFETY INSTRUCTIONS

We adhere to standard safety requirements for general cements. For more detailed information, please refer to the safety data sheet for **Çimsa Master Power** cement.

8 STORAGE CONDITIONS AND SHELF LIFE

Çimsa Master Power should be stored in dry and sheltered environments. This ensures the product retains its properties for a minimum of 6 months. Based on previous studies, the product has been observed to maintain its properties for over a year. Bagged products should not be stored for more than 3 months. It is advised not to stack more than 10 bags or 2 pallets on top of each other. The product must be stored in its original packaging, and the package should be tightly closed when not in use.