

Royal El Minya White Cement

CEM I 52.5 R

Royal El Minya White Portland Cement, classified as CEM I 52.5 R according to EN 197-1:2011 with CE Mark (0906-CBR 20000240011587), is a high-performance binder used in the production of white or colored masonry mortars, plasters, and concrete. Its superior whiteness, durability, and strength make it ideal for a wide range of architectural and structural applications.

Advantages

- Superior quality High compressive strength ensures long-lasting structures
- Suitable for structural and aesthetic applications
- Enhances color vibrancy Works well with pigments for customized colors
- Provides excellent resistance to harsh environments
- Easy to mix and apply, enhancing construction efficiency

Applications

- Architectural & Decorative Concrete – Used in prestige buildings, façades, and white concrete structures.
- Precast Concrete Products – Perfect for tiles, blocks, panels, and paving stones.
- Colored Concrete & Flooring – Blends seamlessly with pigments for customized designs.
- Plasters & Dry Mixes – Essential for smooth and aesthetically appealing finishes.
- Tile Adhesives & Grouts – Ensures strong bonding and uniform appearance.
- Landscaping & Urban Design – Used for garden elements, fountains, and walkways.
- Industrial & Infrastructure Projects – Applied in bridges, tunnels, and high-end construction.

Cement Composition

- Portland cement clinker 95 to 100 %
- Minor additional constituents 0 to 5 %

Regulatory Compliance:

White Portland CEM I 52.5 R – to EN 197-1:2011 standard (Portland cement, Hydraulic Cement)

Storage Conditions

- Storage:**
Recommended to retest after 6 weeks from the packing date if stored for long durations.
- Shelf Life:**
Store in **dry, moisture-free conditions** to maintain product integrity.



Chemical, Physical & Mechanical Properties

Parameter	Royal	Unit	Standard
Insoluble Residue %	1.0 ± 0.5	%	≤ 5
Ignition Loss (%)	3.8 ± 0.5	%	≤ 5
SO ³ (%)	3.5 ± 0.3	%	≤ 4
Chlorine (%)	0.05 ± 0.02	%	≤ 0.1
Hexavalent Chromium	≤ 0.6	ppm	≤ 2.0
Whiteness	≥ 85.5	%	-
Initial Setting (min.)	90 ± 10	min	≥ 45
Soundness - (expansion)	1.0 ± 0.5	mm	≤ 10
2 Days Compressive Strength (N/mm ²)	≥ 39 ± 2	N/mm ²	≥ 30
28 Days Compressive Strength (N/mm ²)	≥ 65.0 ± 3	N/mm ²	≥ 52.5

Packaging & Shipping Options

- Bulk Transport:**
 - Shipped in vessels and containers for global export.
- Bagged Cement:**
 - Available in 25 kg, 40 kg, and 50 kg bags.
 - Material options: P.P, C.P3L+PE, and C.P 3L+PE.
 - Securely packed on pallets.
 - Customization is available to meet specific customer requirements.
- Big Bags (Jumbo Bags):**
 - Customized as per customer request, with or without pallets, ensuring flexible packaging and transport solutions.