

TAMAX-TDS-04 — TAMAX CEM II/A-L 42.5 N White Cement

TAMAX VENTURES LTD. — TECHNICAL SPECIFICATION SHEET

- Document ID:** TMX-TDS-04
- Company:** Tamax Ventures Ltd. (Kansarawdo Mampong Road, Yankey Junction, Takoradi, Ghana)
- Latest Revision:** July 2026 (Ref: v1.0)

1. Product Description & Applications

TAMAX CEM II/A-L 42.5 N is a premium, high-strength white Portland limestone cement. It features exceptional optical whiteness, fast setting characteristics, and superior compressive load performance.

Key Applications

- Structural Building Solutions:** Serves as the high-binding structural base for our specialized **Dampness Proofing System** (breathable plaster/wall putty) and **Roofing Leakage System** (waterproof screeds).
- Decorative Concrete & Architectural Finishes:** Ideal for casting high-end white concrete facades, terrazzo flooring, pre-cast structural panels, columns, and tiles.
- Masonry Finishing & Grouting:** Perfect for luxury white tile joints, wall rendering, decorative plaster moldings, and whitewash coating mixtures.

2. Chemical Characteristics (EN 197-1:2000 Compliance)

Chemical Parameter	Standard Test Method	Mean Value Spec	Unit
Active Chloride Content	EN 197-1:2000	≤ 0.1	%
Sulphate Content (SO ₃)	EN 197-1:2000	≤ 3.5	%

3. Mechanical & Setting Characteristics

Mechanical Property	Test Standard	Tamax Spec Limit	Unit
Compressive Strength (At 2 Days)	EN 197-1:2000	≥ 10.0	MPa
Compressive Strength (At 28 Days)	EN 197-1:2000	≥ 42.5	MPa
First Initial Setting Time	EN 197-1:2000	≥ 60	Minutes
Expansion (Soundness)	EN 197-1:2000	≤ 10	mm

4. Optical Properties (CIE System)

Tamax White Cement is highly prized for its pure light-reflection capabilities, which enhance color accuracy when blended with construction pigments (e.g. Tamax Iron Oxide Red S130).

Optical Parameter	Test Method	Certified Value	Unit
Absolute Whiteness (beta)	Reflectometer	85.0 ± 1.0	%
Clearness Indication (L)	CIE system «L.a.b.»	≥ 93.0	%

5. Logistics, Packing & Origin

- Manufacturing & Quality Control:** Processed under Tamax Ventures Ltd. industrial standards for high-performance architectural applications.
- Packaging Options:**
 - 50kg multi-walled reinforced paper bags.
 - 1.5-ton jumbo distribution bags with moisture-proof liners.
- Storage Guidelines:** Must be stored strictly off-ground on timber pallets in dry, well-ventilated, weather-tight warehouses. Protect from ground moisture and direct water ingress to prevent pre-hydration (clumping).
- Reference Standards:** EN 197-1:2000 European Cement Standards.