TECHNICAL DATA SHEET (TDS)

ALVERTEX® PRIMIX-70 SUPER WHITE

Pure White Calcium Aluminate Binder for Advanced Building Chemistry

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1. PRODUCT DESCRIPTION

ALVERTEX® PRIMIX-70 SUPER WHITE is a premium, pure hydraulic calcium aluminate binder featuring exceptional hydration activity and high early strength development. Engineered entirely without additives, its high calcium aluminate phase makes it an ideal standalone binder or a key component for ternary systems (when combined with Portland cement and gypsum) to achieve precise ettringite matrix control.

Specially developed for high-end dry mix formulations and specialty technical mortars, it eliminates aesthetic limitations by delivering maximum color saturation, vividness, and extreme wear resistance.

2. KEY APPLICATIONS

- **Self-leveling underlayments** and cement-based technical screeds.
- **High-end architectural** and decorative mortars.
- **Terrazzo** and cement-based grindstone flooring systems.
- **Premium technical mortars** and tile grouts requiring absolute color stability.

3. TECHNICAL SPECIFICATIONS & PERFORMANCE

The Acceptable Quality Level (AQL) for the parameters listed below is 2.5% pursuant to ISO 3951 standards.

3.1. Physical Properties

- **Whiteness (Hunter Scale):** 92 – 94 *(Guaranteed: ≥ 90)* | *Testing: GB/T2015-2005*
- **Fineness (Blaine, cm^2/g):** 4300 – 4500 *(Guaranteed: ≥ 4200)* | *Testing: EN196-6*
- **Bulk Density:** 0.9 g/cm^3
- **Specific Gravity:** 2.90 – 3.05 g/cm^3

- **Main Mineralogical Phases:** CA, CA_2

3.2. Working Performance & Setting Time

- **Flow Value (after 30 min):** ≥ 40% *(Guaranteed)* | *Testing: BS EN 196-1 / ASTM*
- **Initial Setting Time:** 140 – 200 minutes *(Guaranteed: ≥ 130 min)*
- **Final Setting Time:** 150 – 230 minutes *(Guaranteed: ≤ 250 min)*

3.3. Mechanical Strength Development (Compressive Strength, MPa)

Testing method: BS EN196-1 (Cement: 450g | Standard Sand: 1350g | Water: 225g)

- **6 Hours:** 30 – 40 MPa *(Guaranteed: ≥ 25 MPa)*
- **24 Hours:** 50 – 65 MPa *(Guaranteed: ≥ 40 MPa)*
- **72 Hours:** 55 – 67 MPa *(Guaranteed: ≥ 42 MPa)*

4. ECOLOGICAL & SAFETY PROFILE

- **Regulatory Status:** Classified as **NON-HAZARDOUS** according to Regulation (EC) No 1272/2008 [CLP].
- **REACH Compliance:** Fully compliant and registered under Regulation (EC) No. 1907/2006.
- **Eco-Purity:** Contains **ZERO** detectable quantities of free crystalline silica or water-soluble Chromium (Cr VI).
- **Volatile Organic Compounds:** 0% (Zero VOC content) to meet stringent EU indoor air quality standards.

5. STORAGE & SHELF LIFE

When stored in dry, moisture-free conditions and kept off the ground in its original, unopened packaging, the product maintains a guaranteed shelf life of **over 180 days**.

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Official Technical Alternative to Ternal® White