



WHITE FAST HARDENING CRACK-RESISTANT HIGH-BELITE SULPHOALUMINATE CEMENT

White cement | High early strength | Low shrinkage | GRC, terrazzo and decorative mortar solution

PRODUCT OVERVIEW

White Fast Hardening Crack-Resistant High-Belite Sulphoaluminate Cement is a white special composite cement made from low-iron white high-belite sulphoaluminate cement clinker, calcium sulphoaluminate cement clinker, gypsum-based setting regulator, slag and other cementitious materials.

The product is designed for white or light-colored cement-based systems requiring fast hardening, high early strength, low shrinkage and decorative surface quality. It is especially suitable for GRC/GFRC, terrazzo, artificial stone, decorative mortar and architectural precast products.

KEY BENEFITS

Benefit	Description
White Appearance	Whiteness around 75 or above, suitable for white and light-colored decorative cement products.
High Early Strength	Typical compressive strength reaches about 28.2 MPa at 6 hours and 52.8 MPa at 28 days.
Crack Resistance	Controlled micro-expansion helps compensate shrinkage and reduce cracking in decorative products.
Fast Demolding	Fast strength development helps shorten demolding, grinding and turnover time.
Low Alkali GRC Option	Suitable for low-alkali GRC/GFRC systems after formulation optimization.
Decorative Durability	Good surface strength, wear resistance and permeability resistance for high-value decorative materials.

TYPICAL APPLICATIONS

- White GRC/GFRC products, facade panels, architectural decorative components and landscape products.
- Terrazzo, inorganic terrazzo slabs, cast-in-place terrazzo flooring and polished decorative flooring.
- Artificial stone, inorganic stone, white or light-colored precast decorative products.
- Decorative mortar, white repair mortar, wall coating base mortar and aesthetic cement finishes.
- Fast-hardening self-leveling compound and floor systems requiring light color and high early strength.
- High-value dry mix mortar where whiteness, low shrinkage and surface quality are important.

TECHNICAL DATA

Item	Typical value / requirement
Appearance	White powder cement
Strength grade	42.5 grade
Specific surface area	Standard $\geq 450 \text{ m}^2/\text{kg}$; typical test value about $530 \text{ m}^2/\text{kg}$
Setting time	Initial about 21 min; final about 26 min
Whiteness	Requirement ≥ 75 ; typical value about 76.38
Flexural strength	6 h: about 6.2 MPa; 7 d: about 7.3 MPa; 28 d: about 7.7 MPa
Compressive strength	6 h: about 28.2 MPa; 7 d: about 50.1 MPa; 28 d: about 52.8 MPa
Free expansion rate	28 d in water: about 0.085%; 28 d in air: about -0.032%
Recommended use	Use as white special cement component in optimized decorative mortar, GRC, terrazzo, artificial stone and precast formulations

DIRECTIONS FOR USE

- Use as a white special cement component. Trial mix is required to confirm working time, whiteness, strength, shrinkage and surface quality.
- For terrazzo and artificial stone, optimize aggregate color, pigment, water-cement ratio, grinding time and curing condition to achieve stable appearance.
- For GRC/GFRC, verify alkali level, fiber type, fiber content, polymer, curing and demolding time according to the final product design.
- Control moisture curing and avoid rapid drying in the early stage to reduce surface cracking and improve surface compactness.

PACKAGING AND STORAGE

- 25 kg bags
- 1,000 kg jumbo bags / bulk bags



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- Store in a dry, covered and well-ventilated place. Protect from moisture and rain. Avoid contamination with grey cement or colored materials.

PRODUCT POSITIONING

- Main focus: white GRC/GFRC, terrazzo, artificial stone, inorganic stone, decorative mortar, polished flooring and architectural precast products.
- Best value is achieved in high-value decorative systems where whiteness, fast demolding, crack resistance and surface quality are required.
- Target customers: GRC/GFRC manufacturers, terrazzo producers, artificial stone manufacturers, decorative mortar producers and architectural precast factories.

FORMULATION REMINDERS

- For white products, control aggregate color, pigment compatibility, water quality and equipment cleanliness to avoid color contamination.
- Final whiteness and surface appearance must be confirmed by trial mix and sample production under the customer's curing and grinding process.

COMPANY INFORMATION

Item	Information
Company	Tangshan Polar Bear Building Materials Co., Ltd.
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Note: The above values are typical data for reference. Final performance and appearance depend on formulation design, raw material color, water-cement ratio, additives, curing condition and application method.