



White Cement DBM - WS1 (CEM I, 52.5 N)

Product Features

White Cement is a premium building material known for its high whiteness and aesthetic appeal. Made with low iron oxide, it offers a bright, clean finish ideal for architectural and decorative applications. White cement provides excellent workability, high strength, and durability, making it suitable for precast products, decorative concrete, and plastering.

Technical Specifications

Chemical Analysis

SiO ₂ (Max. %)	22-23.8
Al ₂ O ₃ (%)	4-5
Fe ₂ O ₃ (%)	<0.45
CaO (Max. %)	63-66
MgO (%)	<3
SO ₃ (%)	1.8-2.6
K ₂ O (%)	<0.5
Na ₂ O (%)	<0.5
IR (%)	<0.6
LOI (%)	<3
Choloride Content	<0.02

Physical and other Properties

Specific Surface (Blaine)	>4000
Autoclave Expansion (%)	<0.1
Le Chatelier Expansion (%)	<1.5
Compressive Strength;	
2-day (MPa)	>25
7-day (MPa)	>32
28-day (MPa)	>57
Time of Setting;	
Initial (min)	>90
Final (min)	>120
Degree of Whiteness (L*)	>91.5
Free Lime (%)	<1.7

Product Variants

White Portland Cement is produced in a accordance with EN Standard in CEM I, 52.5 Grade. But it can also be customized to meet specific application needs. These include standard white cement, which is ideal for general use; white Portland cement, known for its high strength and durability; and specialty blends that incorporate additives for enhanced performance in specific environments, such as moisture-resistant or quick-setting options.

Packaging Information

White Cement is available in various packaging options to suit your needs, including 25 kg, 40 Kg and 50 Kg PP bags with or without jumbo bags or pallet and bulk packaging in jumbo bags. All packaging is designed for easy handling, storage, and transportation, ensuring the product remains dry and protected from moisture.

Application and Usage

White Cement has different applications in various industries such as;

- >> Architectural Concrete: Ideal for decorative facades, sculptures, and features with a bright finish.
- >> Precast Products: Used in precast elements like panels and tiles for a smooth surface.
- >> Plastering: Commonly applied for interior and exterior plastering, ensuring durability.
- >> Mortar and Grouts: Employed for white mortar and grout in tiling projects.
- >> Colored Concrete: Can be tinted for unique decorative applications.
- >> Art and Craft: Versatile for various art projects due to its bright color.
- >> Repair Works: Effective for repairing and resurfacing existing concrete.

Safety Data

White Cement is generally safe to handle, but precautions should be taken to minimize exposure to dust. Prolonged inhalation of dust may cause respiratory irritation. When handling, use appropriate personal protective equipment, such as dust masks, gloves, and safety goggles. Ensure proper ventilation in the work area to reduce dust accumulation. In case of contact with eyes, rinse thoroughly with water. Store in a cool, dry place, away from moisture and direct sunlight.

Warranty

DATSON Building Materials warrants that the product supplied meets the specified quality and performance standards as outlined in this datasheet. We guarantee that the material is free from defects in manufacturing and workmanship. For warranty claims, please retain proof of purchase and contact our customer service team.

