

SCG WHITE PORTLAND CEMENT

Innovative Cement for the Ultimate Structural Work







SCG WHITE PORTLAND CEMENT

Innovative Cement
for the Ultimate Structural Work

Usage Instructions

Mix Design

Application	Cement	Sand	Aggregate	Water
				
Terrazzo	1		2 or 2.5	0.5
Plastering	1	2		0.5 or 0.6
Exposed Aggregate Finished	1		2	0.5
Architectural Concrete Casting	1	2	4	0.5 or 0.6

Note : Mixture formula may be adjusted to suit particular jobs (consult civil engineers)
During 1-3 days of curing process, concrete should be sprayed with water to avoid crack for all above applications.

WHITE CEMENT PORTLAND

PHYSICAL PROPERTIES	ASTM Standard			Typical Test Result		
Whiteness (Hunter)	-			92 - 94		
Fineness specific surface	-			-		
Air permeability test Time of setting cm ² /g	Min. 2800			3600 - 4000		
Time of setting	-			-		
Vicat test : Initial set minute	Min. 45			150 - 230		
Final set minute	Max. 375			240 - 320		
Soundness: Autoclave expansion %	Max. 0.8			(-0.02) - 0.02		
Air content of mortar %	Max. 12.0			5.0 - 8.0		
False set %	Min. 50			60 - 80		
Compressive strength (mortar cubes)	Kgf/cm ²	Mpa	Psi	Kgf/cm ²	Mpa	Psi
3 days	Min 122	12.0	1740	260 - 310	25.5 - 30.4	3696 - 4409
7 days	Min 194	19.0	2760	340 - 400	33.3 - 39.2	4835 - 5689
28 days	Min 285	28.0	4060	420 - 490	41.2 - 48.0	5973 - 6969
CHEMICAL PROPERTIES	ASTM Standard			Typical Test Result		
Silicon dioxide (SiO ₂) %	-			22.3 - 23.3		
Aluminium oxide (Al ₂ O ₃) %	-			4.0 - 5.0		
Ferric oxide (Fe ₂ O ₃) %	-			0.15 - 0.3		
Calcium oxide (CaO) %	-			65.5 - 67.5		
Magnesium oxide (MgO) %	Max. 6.0			0.8 - 1.1		
Sulfur trioxide (SO ₃) %	-			-		
when C ₂ A > 8.0	Max. 3.5			2.8 - 3.4		
Total Alkali as Na ₂ O %	Max. 0.6			0.30 - 0.50		
Loss on ignition %	Max. 3.0			2.0 - 3.0		
Insoluble residue %	Max. 0.75			0.1 - 0.3		
Tricalcium silicate (C ₃ S) %	-			55 - 70		
Dicalcium silicate (C ₂ S) %	-			15 - 25		
Tricalcium aluminate (C ₃ A) %	-			10 - 13		

Remark : ASTM C150-12
Code : ELD1



Product Information

- White portland cement for wall or floor finishing/decoration that needs strength, durability and the freedom to create and design to your imagination. With properties of structural works concrete and pure white texture, the results are strong and durable.
- Available in 40 kg. bags

Application

- Structural work
- Terrazzo
- Plastering work
- Exposed Aggregate Finished
- Architectural Concrete Casting
- Dry mix mortar
- Sculpture

Special Features

- Fine and smooth texture with high adhesiveness. Can withstand high compressive strength.
- Reasonable setting time. Best suited for both structural and decorative works.
- The product comes in pure white color which allows for easier control of the color outcome once mixed with cement pigments.

Storage Instructions

- Cement should be stored under shade and away from moisture with pallets being raised above the ground.
- A bag of cement should be finished within 1 day. If not, seal the bag tightly

Certifications

- According to The ASTM Standards C-150 Type I.

Precaution Notice HANDLING SUGGESTION

• For lifting, bend one leg downward while having the other knee remaining straight for body balance.
• Use energy from both legs to move the body upward with straight back. • Children and women should use lifting device to lift this product.

CAUTIONS • Contacting and inhaling white cement may cause allergy, and/or irritation to skin and respiratory system.

• This product is irritating and dangerous if contact with eyes. • This product is not consumable nor is it eatable.

SAFETY PRECAUTION • Avoid eyes and skin contact by wearing eyes/face protection and waterproof clothing, footwear and gloves. • On contact with eyes or skin, rinse immediately with plenty of clean water. Then, seek for medical attention. • Avoid inhaling dust. If so, move the person to fresh air and give artificial respiration when needed. Then, seek for medical attention. If swallow, drink lots of water and do not induce vomiting. Then, seek for medical attention.

Keep out of the reach of children.

Inquiry about details of application method, MSDS document or other information, please contact Customer Service Center or www.scg-trading.com



SCG International Corporation Co., Ltd.

1 Siam Cement Road Bangsue,
Bangkok 10800, Thailand
Tel. +662 586 2222

Agent's stamp