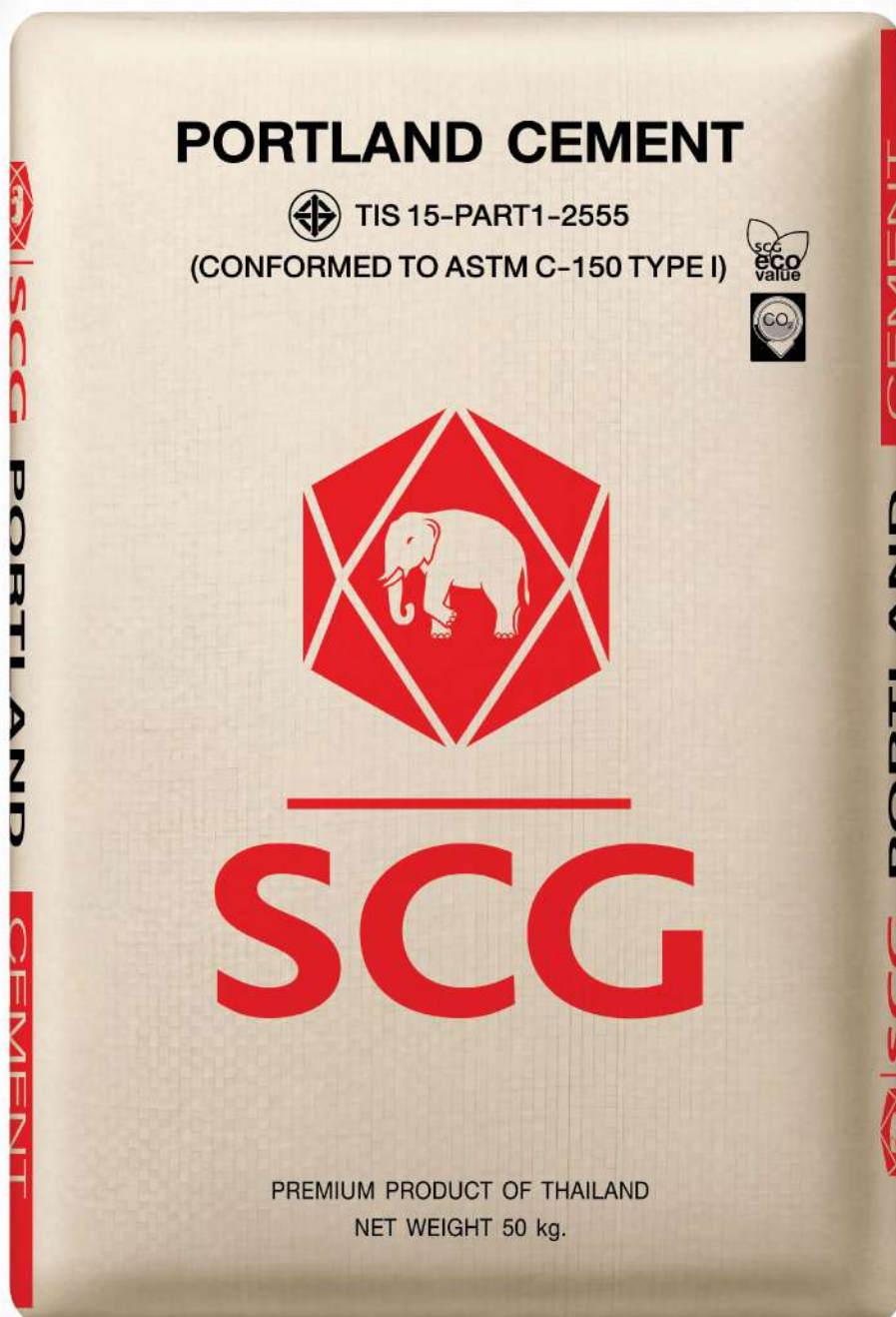


SCG Portland Cement Type I

Innovative Cement for the Ultimate Structural Work



SCG

Portland Cement Type I

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Mix Design

Application	Cement	Sand	Aggregate	Water
Lean Concrete	1 cup	3 cups	4 cups	1 cup
General Concrete Structure	1 cup	2 cups	3 cups	1 cup or 1.5 cups

Note : Mixture formula may be adjusted to suit particular jobs (consult civil engineers)

Product Information

- Portland cement Type I is ideal for concrete constructions requiring high strength such as estates, high-rise building, roads, expressways, stadiums and airports. Also suitable for concrete products including foundations, columns, beams and slabs.
- Cement bags feature a thin plastic lining to protect the cement from humidity and provide resistance to impact, maintaining the freshness of the cement.
- Available in 50 kg. bags

Special Features

- Provides high compressive strength, resulting in strong and durable concrete construction
- Reduces greenhouse emissions in the production process, thereby posing no harm to the environment and providing an alternative for eco-conscious users
- Ideal for both prestressed and non-prestressed concrete



Recommendation

- During 1-3 days of curing process, concrete should be sprayed with water to avoid crack.

Certifications

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

ACCORDING TO THE ASTM STANDARDS C-150 TYPE I FOR PORTLAND CEMENT				TYPICAL TEST RESULTS
CHEMICAL REQUIREMENTS				
MAGNESIUM OXIDE (MgO)	Percent %	Max	6.0	2.4
SULFUR TRIOXIDE (SO ₃)	Percent %	Max	3.0	3.0
When 3CaO, Al ₂ O ₃ is 8% or less	Percent %	Max	3.5	2.4
When 3CaO, Al ₂ O ₃ is more than 8%	Percent %	Max	3.0	2.4
LOSS ON IGNITION	Percent %	Max	3.0	2.4
INSOLUBLE RESIDUE	Percent %	Max	0.75	0.6
PHYSICAL REQUIREMENTS				
FINENESS, SPECIFIC SURFACE				
Air Permeability Test Average Value	cm ² /g	Min	2,600	3,359
SOUNDNESS				
Autoclave Expansion	Percent %	Max	0.80	0.05
TIME OF SETTING				
Vicat Test				
Initial Set	Minutes	Min	45	113
Final Set	Minutes	Max	375	185
AIR CONTENT OF MORTAR	Percent % Volume	Max	12	9.5
COMPRESSIVE STRENGTH				
Mortar Cubes				
3 days	MPa	Min	12.0	25.1
7 days	MPa	Min	19.0	32.8

Remark : The report of the analysis and test results was issued on Jan 2, 2017.

Additional Suggestion 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 ready-mixed mortar or wet mortar admixture 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 <http://cement.scg.co.th>

