

راسيخ®

Rasikh

High Performance Concrete Cement



bringing materials to *life*™



Applications

- For High performance concrete
- Adaptable for Mineral additives: fly ash, steel slag...,etc
- The most appropriate for Prefab industries
- The best for road constructions concrete, shotcrete and in applications that requires quick setting
- Moderate sulfate resistance

Specifications

- Ordinary Portland Cement: CEM I 52.5 N
- According to JS 30-1:2007
- According to EN 197-1:2005

Storage

- Store **BAGGED CEMENT** in dry Places to avoid quality deterioration, Cement Bags maybe stacked over Pallets and covered with plastic sheets in humid weather
- Store **BULK CEMENT** in sealed silos, considering humidity and temperature conditions

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Bucket (1 bucket = 18 Liter)

Liter

Application	Cement	Powder	Coarse Agg.	Fine Agg.	Sand	Total Water	Least Cement Content/m ³
Foundations, Slabs & Columns	Bag	----	2.5-3.0	4.0	3.5-4.0	40±2.5	275

This guidance is only in case of no specified mix design identified by the project consultant

- Defined water quantities may change according to ambient temp. & humidity, Aggregates absorption and its clay content
- Aggregates used must meet the requirements of Agg. STD JS 96:1987
- Mix guide is designed on SSD Aggregate basis

General Precautions

- Any Excess quantity of water added to the concrete leads to drop in strength & low durability.
- Defined water quantities may change according to ambient temp. & humidity, Aggregates absorption and its clay content
- Aggregates used must meet the requirements of Agg. STD JS 96:1987
- Mix guide is designed on SSD Aggregate basis
- Avoid pouring & placing the concrete in windy, snowy & rainy weathers
- Avoid pouring & placing concrete if ambient temp. is less than 5 °C or higher than 35 °C
- Concrete Setting may delay in cold weathers. For quicker setting, cement content should be increased
- Hardened concrete must be cured for 3 days, and should be kept wet for 7 days at least
- Cover wide concrete surfaces with plastic sheets to maintain its moisture as long as possible
- Curing compounds maybe used in case of very wide surfaces. Contact construction chemicals suppliers for more info
- Reducing cement quantities would lead to weak concrete strength & low durability
- Proper mixing is essential to produce homogenous concrete mix

Safety

Direct contact with eyes or any other body liquid may result irritations or inflammation. Proper safety equipments should be used.



In case of eye contact, wash thoroughly with clean water & seek medical help when necessary.

Technical Support

Further technical information & support is available at:

- Concrete Lab, Lafarge Jordan
Cement: 06 – 47 29 921
- Customer Service Center
(Alo Cement): 06 – 56 22 005

CHEMICAL REQUIREMENTS	Results %		Standard Values	
	Min	Max	Min	Max
Loss on ignition (LOI)	0.89	1.94	-	5.00
Insoluble Residue	0.49	1.70	-	5.00
MgO	1.83	3.83	-	
SO ₃	2.67	3.5	-	4.0
Chloride Content	0.01	0.03	-	0.10
CaO	60.89	64.90	-	
SiO ₂	17.81	20.77	-	
Al ₂ O ₃	4.12	6.02	-	
Fe ₂ O ₃	2.97	5.44	-	
K ₂ O	0.60	1.02	-	
Free Lime	0.75	2.56	-	

PHYSICAL REQUIREMENTS	Results %		Standard Values	
	Min	Max	Min	Max
Fineness (Blaine) cm ² /g	4188	5020		
Soundness (Expansion) mm	1.50	2.50		10.00
Initial Setting Time (min)	120	180	45	

COMPRESSIVE STRENGTH	Results (MPa)		Standard Values (MPa)	
	Min	Max	Min	Max
2 DAYS	29.20	35.00	20	
28 DAYS	55.00	61.00	52.50	

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