

® **ثابت**

Thabet

Multi-Purpose Construction Cement



bringing materials to *life*™



Applications

- Multi Purpose Concrete
- Used in foundations, slabs and columns
- Appropriate for prefab industry and tile making
- Considered as the best choice for projects where high compressive strength and limited heat of hydration emission is needed

Specifications

- Portland Pozzolanic Cement: CEM II/A-P 42.5 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

Application	Cement	Powder	Bucket (1 bucket = 18 Liter)			Total Water	Least Cement Content/m ³
			Coarse Agg.	Fine Agg.	Sand		
Foundations, Slabs & Columns	Bag	----	2.5	3.5-4.0	3.0-3.5	37.5±2.5	295
Pavements & Yards	Bag	----	2.5	3.5-4.0	3.5-4.0	40.0±2.5	285

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 General Precautions

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)	1.0	2.1	-	
Insoluble Residue	5.0	10.0	-	
MgO	4.1	5.4	-	
SO ₃	2.7	3.4	-	3.50
Chloride Content	0.02	0.04	-	0.10
CaO	51.3	56.3	-	
SiO ₂	22.3	24.7	-	
Al ₂ O ₃	5.80	6.8	-	
Fe ₂ O ₃	4.5	5.5	-	
K ₂ O	0.6	1.1	-	
Free Lime	1.5	2.2	-	

PHYSICAL REQUIREMENTS	Results %		Standard Values	
	Min	Max	Min	Max
Fineness (Blaine) cm ² /g	4500	5000		
Soundness (Expansion) mm	0.5	2.0		10.00
Initial Setting Time (min)	130	165	60	

COMPRESSIVE STRENGTH	Results (MPa)		Standard Values (MPa)	
	Min	Max	Min	Max
2 DAYS	24.2	29.9	10.00	
28 DAYS	45.5	51.7	42.50	62.50

Lafarge Cement Jordan

Tel: +962-6-5622005
 Fax: :+962-6-5600639
 P.O.Box 930019 Amman 11193
 www.lafarge.com.jo

