



Al Madina Cement Products
المدينة للمنتجات الأسمنتية



TOGETHER WE BUILD
A GREEN FUTURE



INSUCRETE

THERMAL INSULATION LIGHT WEIGHT CONCRETE INSU-CRETE

Pre-mixed thermal and sound insulation ultra-lightweight concrete, made of pretreated expanded polystyrene beads, selected additives, geopolymers and Portland cement. Used for the thermal insulation of roofs, decks, floors..etc .

PACKAGE AND STORAGE

- Dry-mix Bags of 55L dry content. Packing tolerance 5%.
- Jumbo bags of 840 L of INSU-Beads (without Cement).
- Shelf lifetime is up to 12 months depending on the storage conditions such as Fresh and dry place, protected from rain and direct sun light...etc

FIELDS OF APPLICATIONS

- One layer for forming gradient, Thermal, sound insulation, fire retarding, for slopped or flat roofs, decks, balconies, and terraces (Concrete, metal, galvanized....etc).
- Gaps filling above concrete or steel substrates.
- Thermal and sound insulation for underheat flooring systems.
- Ultra-lightweight mixtures for floors, roofs...etc
- Formation of gradient.
- Thermal insulation for domes or inclined substrates.
- Others based on its various features.

INSUCRETE layer is compatible with all waterproofing materials and offers a monolithic and homogenous slab.



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MAIN TECHNICAL CHARACTERISITCS

ID	IC250
Dry Density (kg/m ³)	250
Water content (L/60 Liter dry bag content)	9-10
Compressive strength (mpa)	Up to 1.4
Thermal conductivity $\lambda(w/m.k)$	0.0591
Moisture resistance	Rotproof
Fire reactivity	Non -Combustible
Density Tolerance	$\pm 10\%$

Important Note: -

- INSUCRETE is a golden key for various densities. Densities available 200, 250, 300, 350 kg/m³. For densities over 350 kg/m³, Sand can be added.

MIXING AND APPLICATIONS

- Prepare the leveling points.
- Add No of bags suitable to your mixer.
- Add 9 - 10 liters of clean water/bag and mix for 4-6 minutes using high speed mortar-concrete mixers or cellular concrete machine.
- Remove previously dust, oil, grease, and fragments of residue of any kind from the applied surface.
- Wet sufficiently the surface previous INSUCRETE application without leaving puddles.
- Prepare the leveling points.
- In case galvanized or metal surface (Non-absorbent surfaces) Do not wet the surface and apply a wire or metal mesh, properly anchored to the applied surface.
- Apply the mix to the surface according to your leveling points.
- 18 bags performs approximately 1 CBM yield.



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صنع في
عمان
Made in
OMAN

IMPORTANT NOTES

- **Minimum thickness 4-5 cm.**
- Mix until the content be total homogenous.
- Mix the whole bag at once. Do not separate the bag.
- Avoid application under the rain or with temperature below +5 C with frost risk.
- Use only clean water for mixing.
- Protect insucrete surface from rain for the first 12-24 hours and always keep the drainages cleaned and open.
- **Curing with water is mandatory: duration depends on climate conditions.**

For mix design of 350 kg/m³ and higher kindly contact
ALMADINA TECHNICAL TEAM

ADVANTAGES

- One layer Combines Thermal, sound insulation, and slope (Gradient) for roofs, balconies, and terraces.
- Save Energy, Cost, and time.
- High & Stable LTTR (Long-term thermal resistance).
- Reduction of Electricity & Energy Consumption.
- Reduction of CO₂ Emissions.
- Reducing deadloads (The lightest density of insulating concrete available in construction)
- High Sound Insulation.
- Fire retardant & Self-Extinguishing.
- Full Homogenous and monolithic slab.
- Elimination of Thermal bridges.
- Compatible with bricks and concrete.
- Excellent adhesion and cohesion.
- High water Vapor permeability rate.
- Pleasant indoor climate.
- Low water absorption.
- High production rate per day.
- Eco and environmentally friendly.
- Unaffected by moisture and sunlight.
- Protects the waterproofing layer above it from condensation and stored moisture.
- Easy for lifting and handling.
- Does not allow the growth of bacteria or algae or mold.
- Rotproof.
- Compatible with all waterproofing layers.
- Does not need control or expansion joints.
- Warranty for thermal properties up to 20 Years.



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Yielding rate & Thermal Resistance R (m²k/w)

Thickness	Yield (m ² /bag)	Thermal Resistance R (m ² .k/w)
4	1.38	0.68
5	1.1	0.85
6	0.92	1
7	0.79	1.19
8	0.69	1.36
9	0.61	1.53
10	0.55	1.69
12	0.46	2.03
15	0.37	2.54
20	0.28	3.39



INSU Crete

من الحلول المثلى للعزل الحراري ولتعزيز
كفاءة الطاقة وبناء مستقبل مستدام

The technical information provided in this data sheet is based on laboratory testing and is intended as a general guideline. Actual performance may vary due to the packing tolerance, site conditions, water content, mixing equipment, weather factors, and installation methods. This information is not legally binding, and Almadina Cement Products assumes no liability for variations in performance resulting from external conditions or improper application.

It is the responsibility of the user to verify the product's suitability for the intended application and to follow best industry practices and installation guidelines.

Almadina Cement Products reserves the right to modify this data sheet at its sole discretion without prior notice. This version supersedes all previously published data sheets, which are no longer valid.



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TEST CERTIFICATE - THERMAL CONDUCTIVITY

Report No.	LMCIV-2405744/4	Date Reported	24 Jul 2024
Customer Ref.	Insucrete - 250	Date Received	17 Jul 2024

1. Information Provided by the Customer

Customer for LAL	Al Madina Cement Products LLC
Project	Insu Product Based On Closed Cell Vergin Eps Cement Mortar
Project Customer	General
Sample Description	Insucrete - 250 - Thermal Insulation Roofing & Flooring Lightweight Concrete

2. Sample Details

Sampled By	Customer	Casting Date	Not Given
Sampling Method	Not Given	Source of sample	Not Given
Sample Brought By	Customer	Sampling Certificate	Not Given
Sampling Location	Not Given	Sampling Certificate No.	Not Given

3. Information Provided by Laboratory

Date Tested	17 Jul 2024	Test Method	ASTM C 518 :21
Sample No.	CIV-05744/4	Method Variation	Nil
Test Location	Laboratory at Samil	Remarks	Nil

4. Test Result

Size of Portion Tested (mm)	Density (kg/m ³)	Actual Specimen Thickness (mm)	Run Time (sec)	Temp. (°C)	Avg. Thermal Conductivity (W/mk)
228 x 227 x 52	230	50.73	1800	34.8825	0.0591567

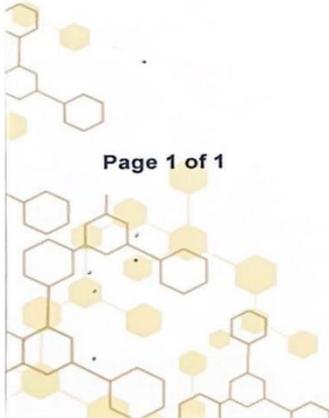
----- End of Report -----



For and on behalf of Lonestar Alpha Laboratories
Muscat

Sridhar Sanjeeviraj
Supervisor

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info@lonestralpha.com
PO Box (1197), PC (130)

T: +(968) 24501524
F: +(968) 24503814

Sultanate of Oman,
Muscat

www.lonestralpha.com
CR: 3245330

800 777 11

info@mcp.om

MCP_Oman
Insu.Oman

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TEST CERTIFICATE - COMPRESSIVE STRENGTH OF CONCRETE CUBES

Report No.	CIVR24-13212	Date Reported	3-Dec-2024
Customer Ref.	-	Date Received	13-Nov-2024

1. Information Provided by Customer

Customer for LAL	Al Madina Cement Products	Sub Contractor	N/A
Project	General		
Project Customer	General		
Main Contractor	General	Date Casted	15-Oct-2024
Consultant	General	Grade of Concrete	Not Given
Place of Sampling	General	Source / Supplier	Al Madina Cement Products
Fresh Concrete Slump (mm)	Not Given	Nominal Size of Specimen	150 x 150 x 150 mm
Method of Sampling	BS 1881 Part 101 : 1983	Date & Time of Sampling	15-Oct-2024
Method of Making Cubes	BS 1881 Part 108 : 1983	Fresh Concrete Temp (°C)	Not Given
Method of Compaction	Manual	Required Test age(Days)	28
Specimen Made by	Customer	Condition of Curing & Storage at site	Not Given
Structural Reference	Insucrete-300- Thermal Insulation Roofing and Flooring Light Weight Concrete		

2. Information Provided by Laboratory

Sample brought By.	Customer	Date of Test	13-Nov-2024
Curing at the laboratory since receipt from Customer	Water @ 20 ± 2°C	Actual Test age (Days)	29
Removal of fins	Steel File	Moisture condition when tested	Moist
Remarks	Nil	Volume determination	By Calculation

Test Name	Test Method	Test Method Variation
Compressive Strength of Concrete Cube	BS 1881 Part 116 :1983	NIL
Density of Hardened Concrete	BS 1881 Part 114 :1983	NIL
Curing at lab since receipt from Customer	BS 1881 Part 111 :1983	NIL

3. Test Result

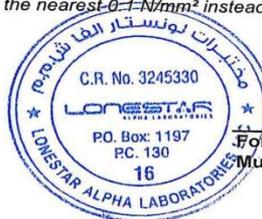
LAL Sample No	Customer Ref.No.	Condition when received	Measured Dimensions			Mass kg	Density kg/m ³	Max. Load kN	Compressive Strength N/mm ²
			L mm	W mm	H mm				
55644	1	Normal	150	150	150	1.064	320	31	1.4
55645	2	Normal	150	150	150	1.064	320	32	1.4

*SF - SATISFACTORY FAILURE , *USF - UNSATISFACTORY FAILURE

----- End of the test report -----

Note: The compressive strength value is reported to the nearest 0.1 N/mm² instead of 0.5 N/mm² as per the customer's request

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For and on behalf of Lonestar Alpha Laboratories
Muscat

Seetharam V.S.
Sr. Lab. Technician

info@lonestralpha.com
P.O.Box (1197), P.C (130)

T: +(968) 24501524
F: +(968) 24503814

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MATERIAL SUBMITTAL (MS)

Project Name: TMG HQ Office	Package:
Project No. : E/ID/1080	Phase:
Employer: TMG	Supervision consultant: EHAF Consulting Engineers
Project manager: Abdul Salaam	Contractor: Zawaya Al Bait, Efreetz (EZ)

From: Zawaya Al Bait, Efreetz (EZ)	Date: 12-8-2025
To: EHAF Consulting Engineers	Ref : TMG-EZ-ID-MAS-ARC-12
Attn : Eng Hesham Azmy	Subject: Light Weight Concrete

Material For Approval

Description: Light Weigh Concrete	Use: Floor Screed, for all floors
Specification Reference :	Quantity:
	Bill of Quantities Reference :

Manufacturer's Details

Manufacturer: Al Madina Cement Products	Supplier: Al Madina Cement Products
Model number:	Serial number :
Country of origin: OMAN	Date of arrival on site:
Storage location:	Certificate of origin:
	Bill of lading:

For the Engineer use only :

INSPECTION REPORT

	Yes/No	Initials	Inspector engineer
1- Physical damage?	-----	-----	-----
2- Details given above correct?	-----	-----	-----
3- Conforms with approved submission?	-----	-----	-----
4- Accessories / Spare parts included?	-----	-----	-----

Remarks:

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To : Zawaya Al Bait, Efreetz (EZ)	From : EHAF Consulting Engineers	Date :
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Action Code Legend :

<input type="checkbox"/> Approved	<input checked="" type="checkbox"/> Approved as Noted	<input type="checkbox"/> Revise and Resubmit	<input type="checkbox"/> Rejected
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Note :

- Production, supply and / or implementaion shall proceed only when action code is 1 / or 2.
- Regarding action code 3, resubmittal shall be within the time set in the contractor.
- Review dose not relieve the contractor from responsibility of compliance with all requirements of contract documents.

Remarks : subject to the timely delivery of materials and full compliance with the manufacturer's guidelines regarding application, storage, and fixation

Action Required :

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Attachments :


Supervision Consultant
 Authorized representative