



Al Madina Cement Products
المدينة للمنتجات الأسمنتية



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A GREEN FUTURE



INSUPLAST

THERMAL INSULATION LIGHT WEIGHT PLASTER

Ready dry-mix Plastering with high thermal insulation properties (Thermal Conductivity $\lambda = 0.059$ w/m.k) Consists of premixed high quality virgin of expanded polystyrene, aggregate, geopolymers and unique additives in average density of 330 kg/m^3 which can be easily mixed by any mechanical mixer to produce thermal insulation plastering.

PACKAGING AND STORAGE

- Dry-mix bags of 55L dry content. Packing tolerance 5%
- Shelf lifetime is up to 12 months depending on the storage conditions such as Fresh and dry place, protected from rain and direct sunlight...etc

FIELDS OF APPLICATIONS

- External thermal insulation (Walls).
- Internal thermal insulation (Walls).
- Thermal insulation of ceilings.

MIXING AND APPLICATIONS

- Spatter dash layer is strongly recommended previously to INSUPLAST application.
- Add No of bags suitable to your mixer.
- Add 8 - 11 liters clean water/bag and mix for 4-6 minutes using high speed mortar-concrete mixers or plastering machines.
- Remove previously dust, oil, grease, unstable plasters & paints from the applied surfaces.
- Wet sufficiently the surface previous INSUPLAST application without leaving puddles.
- Apply the first layer from 10-15mm thickness and the remaining layers from 20-30mm.
- Normal application as traditional plaster.
- 18 bags performs approximately 1 CBM yield.

Note:- to get the appearance

- After applying INSUPLAST, a putty layer can be applied as part of the painting process. This can be done directly or after light surface smoothing, depending on the desired final plastered appearance.

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IMPORTANT NOTES

- Minimum thickness 2 cm – Maximum 20cm.
- Mix until the content be total homogenous.
- Partial utilization of the content is not allowed, use the fully content in a single batch.
- Avoid application under the rain or with temperature below +5 C with frost risk.
- Use only clean water for mixing.
- Can also be applied by spray gun mixer and pump.

ADVANTAGES

- High & Stable LTTR (Long-term thermal resistance).
- Save Energy, Cost, and time.
- Reduction of Electricity & Energy Consumption.
- Reduction of CO₂ Emissions.
- Reducing the added deadloads (Density 350 kg/m³)
- High Sound Insulation.
- Fire retardant & Self-Extinguishing.
- Full Homogenous Mix.
- Elimination of Thermal bridges.
- Excellent compatibility with bricks and concrete.
- Excellent adhesion and cohesion.
- Excellent water Vapor permeability rate (Breathable).
- Pleasant indoor climate.
- Low water absorption.
- High production rate per day.
- Eco and environmentally friendly.
- Unaffected by moisture and sunlight.
- Enhances the wall breathability to protect it from condensation and stored moisture.
- Easy for lifting and handling.
- Does not allow the growth of bacteria or algae or mold formation.
- Rotproof.
- Warranty for thermal properties up to 20 Years.

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TECHNICAL SPECS

Thermal Conductivity λ	0.0599 w/m.k
Compressive Strength	Up to 1.65 n/mm ²
Adhesion Strength	0.14 n/mm ²
Fire reactivity	Non-Combustible
Moisture resistance	Rotproof
Density Tolerance	± 10%

Yielding rate & Thermal Resistance R (m²k/w)

Thickness	Yield (m ² /bag)	Thermal Resistance R (m ² .k/w)
2 cm	2.75	0.33
3 cm	1.83	0.5
4 cm	1.375	0.67
5 cm	1.1	0.84
6 cm	0.92	1
7 cm	0.79	1.17
8 cm	0.69	1.34
9 cm	0.61	1.5
10 cm	0.55	1.67
12 cm	0.46	2
15 cm	0.37	2.5
20 cm	0.28	3.34

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-2405744/6	Date Reported	24 Jul 2024
Customer Ref.	Insuplast - 350	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	Insuplast - 350 - Thermal Insulation Plaster For Exterior & Interior Applications

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-05744/6	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)
226 x 226 x 52	350	49.47	1800	34.8925	0.0599465

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

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TEST CERTIFICATE - COMPRESSIVE STRENGTH OF CONCRETE CUBES

Report No.	CIVR24-13211	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	Insuplast -350-Thermal Insulation Plaster for External and Internal Application		

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				
55642	1	Normal	150	150	150	1.232	370	37	1.6
55643	2	Normal	150	150	150	1.226	360	38	1.7

*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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TEST CERTIFICATE - PULL OFF STRENGTH

Report No.	LMCIV-2409754/5	Date Reported	19 Nov 2024
Customer Ref.	-	Date Received	16 Nov 2024

1. Information Provided by the Customer

Customer for LAL	Al Madina Cement Products
Project	Insu Product Based On Closed Cell Vergin Eps Cement Mortar
Project Customer	General
Main Contractor	General
Consultant	General
Sample Description	INSUplast - 350 - Thermal Insulation Light Weight Plaster for Exterior & Interior Applications

Sampled By	Customer	Date of Cast	21 Oct 2024
Sampled Brought By	Customer	Place of Sampling	Samail
Source of Sample	Al Madina Cement Products	Mix Grade	Not Given
Structural Reference	Not Given		

2. Information Provided by Laboratory

Date of Test	19 Nov 2024	Condition as Received	400x1190x20 mm plaster with block
Test Method	ASTM D 7234-19	Method Variation	Nil
Test Location	LAL MCT	Remarks	Nil

3. Test Results

Test No	Test Location	Pull off strength (N/mm ²)	Mode of failure	Material used
1	Location-01	0.13	Within Insu Plaster 350	Insu Plaster 350
2	Location-02	0.15	Within Insu Plaster 350	

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

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