



# MULTICS

Modern Cladding Materials



THERMAL INSULATION PLASTER

CATALOG

## MULTICS — Where Innovation Meets Architecture

At **Multics**, we believe building is more than combining materials—it's about creating lasting experiences shaped by elegance, resilience, and innovation

Using advanced technologies and formulations, we develop and apply high-performance façade systems and building materials for both interior and exterior spaces

Our focus is to deliver solutions that meet technical and aesthetic needs, rooted in a deep understanding of architectural standards and regional climate conditions

Multics stands not merely as a supplier, but as a creative consultant and technical partner—committed to helping professionals shape quality-driven, reliable spaces that meet international benchmarks



## THERMOTICS — Cement-Based Thermal Insulation Plaster

**THERMOTICS** is a modern cement-based coating designed for interior and exterior walls, floors, and ceilings. It combines specialized lightweight aggregates, cement, and polymers to deliver effective thermal and acoustic insulation, reduce structural weight, and increase energy efficiency.

This product conforms to **Chapter 19 of Iran's National Building Regulations**, ensuring full compliance with mandatory energy-saving architecture standards.

## PRODUCT RANGE

| NAME           | APPLICATION AREA         | RECOMMENDED USE                             |
|----------------|--------------------------|---------------------------------------------|
| THERMOTICS W10 | walls                    | General insulation for interior & exterior  |
| THERMOTICS W20 | Enhanced wall insulation | Projects requiring high performance         |
| THERMOTICS F10 | Floors & ceilings        | Floor slabs, sloped roofs, acoustic control |



## ○ Key Benefit

- Structural weight reduction
- Elimination of thermal bridges
- Durable against weather and temperature fluctuations
- Dual thermal and acoustic insulation
- Quick and efficient application process
- High elasticity to prevent cracking
- Polymer-enhanced adhesion to various surfaces
- Allows natural vapor diffusion (breathable)
- Made with eco-friendly, natural lightweight aggregates



## Technical Specifications

| Feature                                   | W10         | W20         | F10         |
|-------------------------------------------|-------------|-------------|-------------|
| Color                                     | White-Grey  | White-Grey  | White-Grey  |
| Dry Density (kg/m <sup>3</sup> )          | 300 ±25     | 200 ±25     | 450 ±50     |
| Adhesion Strength (N/mm <sup>2</sup> )    | 0.1         | 0.1         | 0.2         |
| Fire Resistance Rating                    | A1          | B-s1,d0     | A1          |
| Thermal Conductivity (W/m·K)              | 0.07 ±0.005 | 0.06 ±0.005 | 0.10 ±0.005 |
| Compressive Strength                      | CS I        | CS I        | CS II       |
| Flexural Strength (N/mm <sup>2</sup> )    | 0.1         | 0.1         | 0.3–0.4     |
| Sound Reduction Index (dB)                | 20–44       | 20–44       | 20–44       |
| Water Vapor Permeability                  | ≤15         | ≤15         | ≤15         |
| Consumption Rate per m <sup>2</sup> (1cm) | 3–4 kg      | 2–3 kg      | 4–5 kg      |
| Drying Time                               | 1–2 days    | 1–2 days    | 1–2 days    |
| Capillary Water Absorption Class          | W0          | W0          | W0          |



**THERMOTICS** insulation systems are designed for a wide range of architectural applications, including

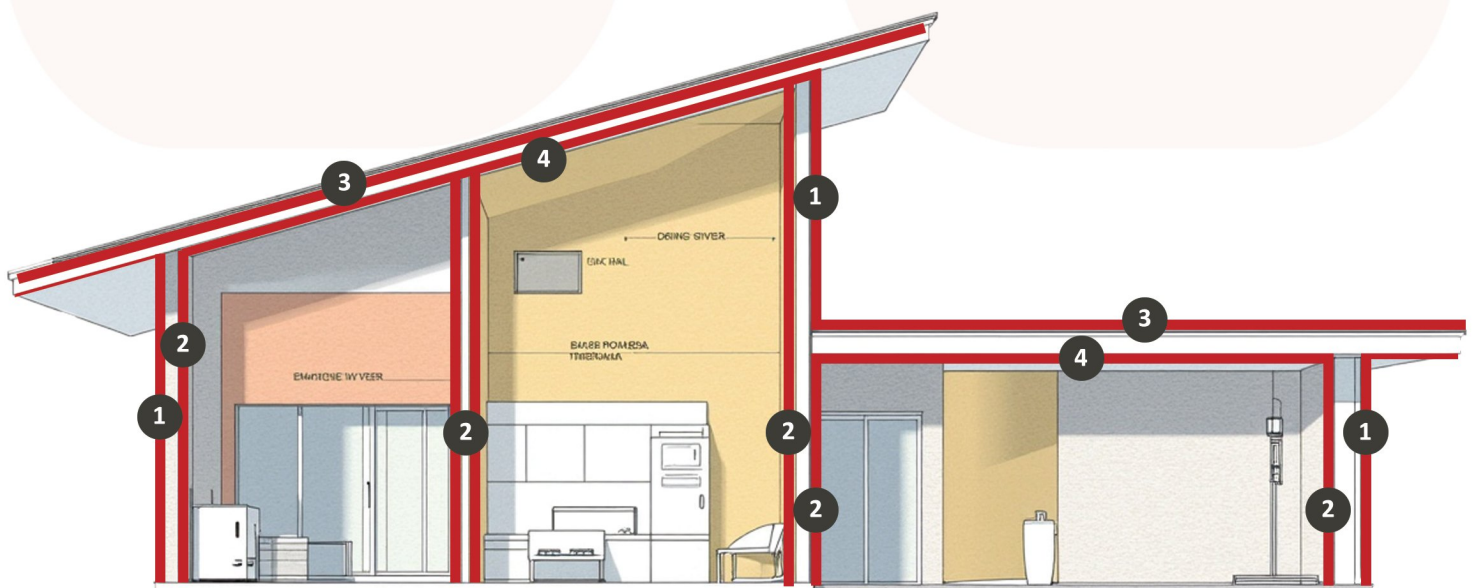
1  
Exterior wall thermal insulation

2  
Interior wall thermal insulation

3  
Sloped roof thermal insulation

4  
Ceiling insulation

5  
Thermotics System



## APPLICATION INSTRUCTIONS



### Machine Application ▲

1

Pour one 10 kg bag into mixing machine; mix for 5 minutes



2

Spray on cement/clay/AAC block walls using an approved spraying unit



3

Level with wide trowel or screed tool



1

### ▲ Manual Application

Mix with a low-speed mechanical mixer for 7 minutes



2

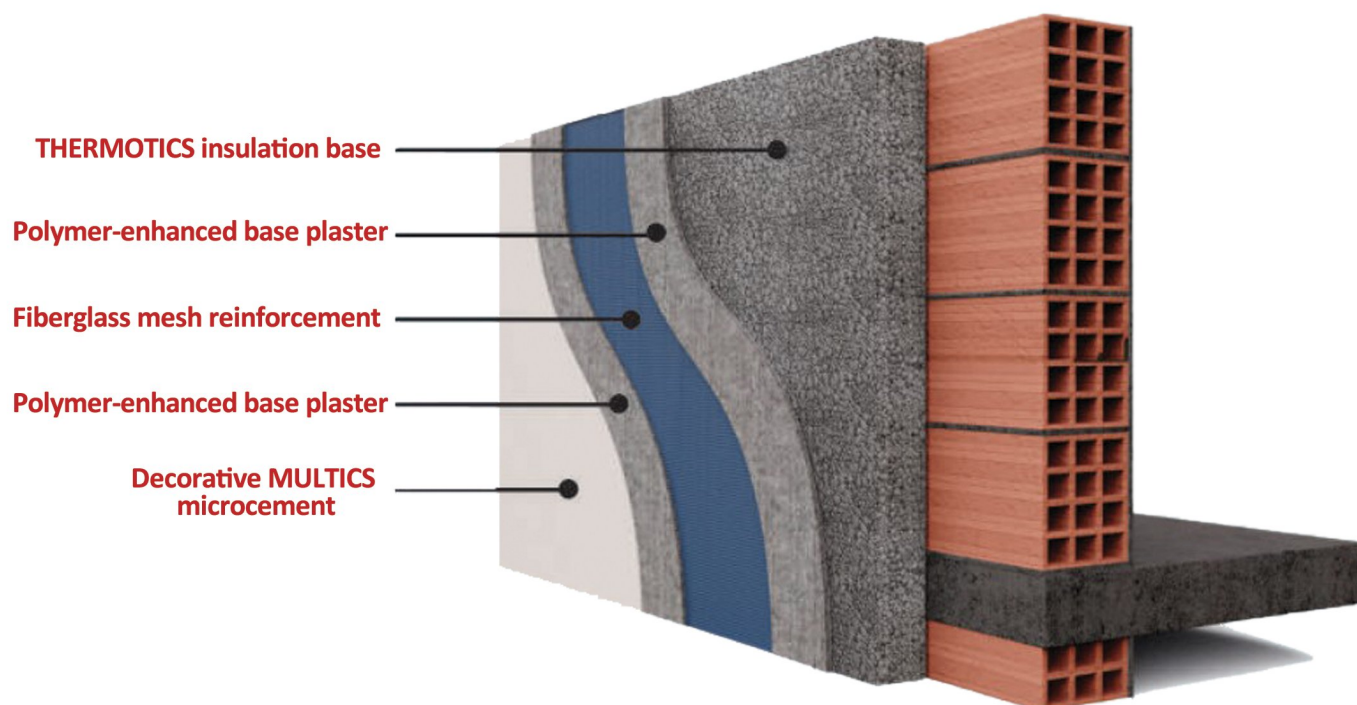
Apply using a trowel and smooth with screed



○ Certified under National Standard No. 706 and European Standard EN 998

## **THERMOTICS** as an ETICS System

**THERMOTICS** is fully compatible with External Thermal Insulation Composite Systems (ETICS), providing an efficient, aesthetically integrated approach to insulation and performance



THERMOTICS SYSTEM



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**Certified by Iran's Building and Housing Research Center**

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