MIG DHMb® Lining System

Exterior and Interior Application

MIG Thermalife® Ecoplaster

- ✓ very good thermal insulation properties
- ✓ easy to recycle
- ✓ purely mineral-based
- ✓ high energy efficiency
- ✓ low thermal conductivity
- ✓ available in bags and silos
- ✓ high yield
- ✓ seamless and cavity-free insulation
- ✓ non-flammable - building material class A1

Product Description

MIG Thermalife® Ecoplaster is a sprayable exterior and interior insulation and a thermal insulation plastering mortar based on cement.
MIG Thermalife® Ecoplaster is a plaster of mortar group P III according to DIN 18550 and strength class CS I according to DIN EN 998-1.

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Product Features

MIG Thermalife® Ecoplaster is an easy-to-apply system insulation plaster with a **thermal conductivity** of **0.042 W/(m*K)**.
MIG Thermalife® Ecoplaster can be applied from 20 to 100 mm without a plaster base, maximum application thickness 150 mm with plaster base.
It has a yield of 7,200 L/t dry material.

Application Area

As a light, **extremely low-stress thermal insulation plaster** on all common, load-bearing substrates.
The system can be used as additional insulation for heat-insulating masonry, e.g. lightweight vertically perforated bricks, lightweight concrete or aerated concrete.
Seamless insulation layers can be produced that fit all geometric shapes of the substrate.
Thanks to the low modulus of elasticity, a high degree of decoupling from the plaster base is achieved, thus significantly increasing safety against plaster cracks caused by the substrate.
The system is also suitable for levelling out large unevenness, as application thicknesses of max. 150 mm are possible. Plaster bases must be applied from 100 mm upwards.
Particularly suitable for renovating old buildings.
MIG Thermalife® Ecoplaster can be applied on all plasterable surfaces.

Building Site Requirement

The plaster base must comply with the relevant standards and the manufacturer's processing guidelines.
Do not process at air and/or object temperatures below + 5°C or above + 35°C or in case of expected night frosts.

Substrate Preparation

The substrate must be clean, dry, solid and free of loose parts. Always remove release agents. Dry old plaster thoroughly or clean with high-pressure cleaner.
For critical substrates, carry out an adhesion test.
Cover components that are prone to dirt or seal them with waterproof tape. Protect weather-exposed working surfaces from rain.
When exposed to sunlight, hang the scaffold with nets or delay processing.
Check old plasters and paints for load-bearing capacity and adhesion.
Knock out hollow areas and replaster. Remove non-adhesive layers of paint completely.
Clean concrete, paints or old plasters free of dusts with high-pressure water and allow to dry thoroughly.
Solidify chalking or sanding surfaces with **MIG-ESP® Sealing Primer**.
Roughen XPS insulation boards (Styrodur® or similar) with a smooth surface, carefully remove dust and, if necessary, use additional screw anchors.
Outside, floor tiles and walls in contact with the ground must be sealed according to the water exposure class.

Processing

The product is processed with a silo mixing pump, with plastering machine PFT G4, equipped with insulating plaster equipment or plastering machines of other brands with an additional mixing blade for light plasters.
The material can also be processed by hand on small surfaces, such as flaws and reveals.
The product **MIG Thermalife® Ecoplaster** is applied in a layer thickness of 10 mm. Further processing takes place in layer thicknesses of approx. 30 mm „wet on wet", up to a maximum of 100 mm (single-layer processing). For plaster thicknesses greater than 100 mm to 150 mm, a suitable, corrosion-resistant plaster base (e.g. Welnet) must be applied.
When a residual moisture of ≤ 35 Digits is reached (measured e.g. with Gann-Hydromette), a reinforcement with **MIG 262** and **Reinforcing Mesh 8x8 mm** must always be used. Waiting time before applying any further layer is one day per 1 mm plaster thickness (1 mm/day). Before applying **MIG 262**, the surface must be pre-treated with **MIG-ESP® Special Primer.**

Mixing by hand:
Use a high-rimmed mortar bucket, put in approx. 19.5 L of water/ bag, pour in the material slowly and mix at a low speed at the beginning until the water is visibly absorbed into the material. Then increase the speed, from this point on mixing time approx. 40 s.

After-treatment / Coating

After-treatment:
Protect fresh plaster from frost, rapid drying and extreme weather conditions such as driving rain.

Coating:
Before applying the finish plaster, prime with **MIG-ESP® Special Primer**. After curing, coat with any **MIG** mineral-based finish plaster. To complete the coating system, apply **MIG-ESP® Interior** or **Exterior** as finish coat.

General Information

In any case, appropriate training is required for the processing of the product.
In case of doubt regarding processing and/or object specifics, ask for advice.
Do not add any foreign substances.
The standard plaster thicknesses must be observed as a minimum. In particular, the provisions of DIN EN 13941, DIN 18550, DIN EN 998-1, DIN 18350 VOB Part C and DIN 18533 must be observed.
Mortar has a strongly alkaline reaction with water, therefore: protect skin and eyes, rinse thoroughly with water in case of contact, seek medical advice immediately in case of eye contact.
Observe the safety data sheet (current SDS at: **www.mig-mbh.de**).
In hardened form physiologically and ecologically safe when set.

Technical Data

Application	exterior and interior
Fire behaviour	A1 (non-flammable), EN 13813
Compressive strength after 28 days	approx. 0.8 N/mm²
Compressive strength class	P III according to DIN 18550, CS I according to DIN EN 998-1
Recommended layer thickness	min. 20 mm, approx. 30 mm per layer, max. 150 mm
Yield	approx. 7,200 L/t
Fibres	yes
Dry bulk density	approx. 125 kg/m³
Processing temperature (air)	do not apply when air and/or object temperatures are below + 5°C and above + 35°C, or in case of expected night frosts
Water adsorption	W1
Water demand	approx. 24.0 L per 12 kg bag
Water vapour permeability	approx. 5 µ
Heat conductivity	$\lambda_{10,\ dry,\ mat}$ = 0.04 W/(m*K) λ_R = 0.042 W/(m*K)
Note	values in the technical data are laboratory values

Consumption

Layer thickness	**mm**	**20**	**40**	**60**	**80**	**100**
Consumption	**kg/m²**	2.8	5.6	8.4	11.2	14
Spread rate	**m²/t**	360	180	119.7	90	72
	L/t	7200				
m²/12 kg/bag		4.28	2.14	1.42	1.07	0.86

(The values refer to flat substrate)

Storage

At least 12 months shelf life from date of sale if stored dry, frost-free and cool under proper conditions in original sealed containers.

Disposal

Do not dispose together with household waste. Do not empty into sewerage system.

Recommendation:
Empty bags completely, disposal in accordance with official regulations.

Packaging

12 kg (per paper bag) x 24 bags (per pallet) = 288 kg

Customs Tariff Number

32149000

MIG DHMb® Lining System – Products

Coatings
MIG-ESP® Interior
MIG-ESP® Exterior
MIG-ESP® Interior Anti-Microbial
MIG-ESP® Rooflect

Plasters
MIG 262
MIG Therm M 65
MIG Therm M 55
MIG Thermalife® Ecoplaster
MIG-HRP Heat Resistant Protector
MIG-HRP 280 Bonding Agent
MIG Therm L 14

Primers
MIG-ESP® Sealing Primer
MIG-ESP® Special Primer
MIG-ESP® Primer quartz-filled
MIG-ESP® PVC Primer
MIG-ESP® Primer for Wood (for indoor use only)
MIG-ESP® Bitumen Primer

Sealing
MIG Sealer

Impregnation
MIG Impreg. Agent for Natural Stone Facades

Legal Information

The information in this publication is based on our current technical knowledge and experience. Due to the abundance of possible influences during the processing and application of our products, they do not release the user from carrying out his own tests and trials and are only general guidelines. A legally binding assurance of certain properties or suitability for a specific purpose cannot be derived from this. Any industrial property rights as well as existing laws and regulations must always be observed by the user on his own responsibility.
With the publication of this data sheet, all previous data sheets lose their validity.

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