

## MIG DHMb® Lining System

For exterior and interior application

# MIG Therm M 65

- ✓ high-yielding
- ✓ purely mineral-based
- ✓ extremely breathable, moisture regulating
- ✓ especially for highly heat-insulating masonries
- ✓ non-flammable – building material class A1
- ✓ heat retaining
- ✓ chromate-reduced according to EU Directive 76/769/EEC



## Product description

**MIG Therm M 65** is a heat-insulating fire protection and system lightweight plaster based on lime, cement, fractionated sands, mineral lightweight aggregates and special additives for improving processability. **MIG Therm M 65** is a plaster of mortar group P II according to DIN 18550 and strength class CS II DIN EN 998-1.

### Technical consulting services

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## Application area

Suitable for exterior and interior use as a light, extremely low-stress system insulating plaster on all common substrates. Especially suitable for modern, highly heat-insulating masonry with  $\lambda > 0.065 \text{ W/mK}$ . For all types of masonry, plaster base, concrete with bonding agent. Complete plaster system, alone with **MIG Therm M 65** consisting of levelling mortar, adhesive plaster (spray cast) and functional plaster **MIG 262**.

## Building site requirement

The plaster base must comply with the relevant standards and the manufacturer's processing guidelines. Do not use at air and/or object temperatures below + 5 °C or above + 35 °C, or if night frost is expected.

## Substrate preparation

The substrate must be clean, dry, firm and free from 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 from dusts with high pressure water and allow to dry thoroughly. Solidify chalking or sanding surfaces with **MIG-ESP® Sealing Primer**.

## Product properties

High-yielding, low-stress system lightweight plaster with very good heat-insulating properties. Easy to process, good stability and easy to trowel smooth.

## Processing

On highly absorbent substrates or substrates with varying degrees of absorption, apply "wet on wet" in two steps. Trim warped plaster with trapezoid featheredge and lattice plaster plane. Exterior application is only allowed when used as a lower layer plaster. Application thickness single layer max. 30 mm. **For layer thicknesses greater than 30 mm, a reinforcement with MIG plaster mesh MW is required and multilayer plastering is necessary.** For large, highly insulating substrates, such as extruded polystyrene rigid foam boards, three-layer boards, etc., a mesh reinforced layer with **MIG 262** must be applied according to specified drying time. Reinforcement should be used on all plaster surfaces with a tendency to change shape, e.g. at the corners of all openings or at the connection points of different materials. **In outdoor areas, diagonal reinforcement must also be provided at all corners of building openings.**

## Consumption

Layer thickness	mm	10	15	20	25
Consumption	kg/m <sup>2</sup>	4.8	7.2	9.5	12.0
Spread rate	m <sup>2</sup> /t	210	140	105	84
	m <sup>2</sup> /15kg/sack	3.0	2.0	1.5	1.2

(The values refer to flat substrate)

## After-treatment/coating

### After-treatment:

Protect fresh plaster from frost and rapid drying.

### Coating:

After curing, it is possible to supplement the system with all MIG finish plasters. A full-surface reinforcement layer with **MIG 262** and **MIG plaster mesh MW** should always be carried out, especially:

- on highly weather-exposed surfaces
- for thin-layer finish plasters < 2 mm grain or with surfaces that are washed out or rubbed with a felt float trowel
- for mixed masonry
- for dark facade coatings
- for roof overhang < 40 cm
- for increased moisture stress (also from the substrate)
- for significant irregularities in the plaster base
- for plaster thickness > 30 mm
- for temperatures lower than + 10 °C and for plaster thickness above 30 mm as well as continuing damp weather or wet surfaces.

#### Further processing:

After completing the plastering work, the rooms must be ventilated repeatedly and briefly (airing out with windows wide open) in order to ensure good strength formation and substrate adhesion. High air humidity disturbs the strength development of plasters. The plaster must be protected against subsequent moisture penetration (correct ventilation after screed installation)! Plaster that has not yet dried out must be protected against high temperatures (e.g. artificial heating) and frost through suitable measures. When preparing a surface for tiling, the plaster should not be felted but only levelled.

### General information

Please consult us in case of doubt regarding processing or special structural features. Do not add foreign substances. **Observe the standard plaster thicknesses as a minimum. Special attention must be paid to the provisions of DIN V 18550/DIN EN 998-1 and DIN 18350 VOB Part C. MIG Therm M 65 is not suitable for skirting board, for which we recommend MIG L 14 light plaster instead.** Mortar reacts strongly alkaline 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 safety data sheet. Once hardened, the material is physiologically and ecologically harmless.

### Storage

At least 6 months shelf life from date of sale if stored dry, frost-free and cool under proper conditions in original sealed containers on pallets.

### Packaging

15 kg (per paper bag) x 35 bags (per pallet) = 525 kg

## Technical data

Application	exterior and interior
Fire behavior	A1 (non-flammable), EN 13813
Compressive strength after 28 days	approx. 2.0 N/mm <sup>2</sup>
Compressive strength class	P II DIN 18550, CS II according to EN 998-1
Recommended layer thickness	approx. 20 mm
Spread rate	approx. 2,100 l/t
Solid pores - composition	approx. 60%
Adhesive tensile strength, min.	≥ 0.08 N/mm <sup>2</sup>
Dry bulk density	approx. 0.4 kg/dm <sup>3</sup>
Processing temperature (air)	do not apply when air and/or object temperatures are below + 5 °C and above + 35 °C, or if night frost is expected.
Heat conductivity	$\lambda_{10 \text{ dry}} = (0.079 \pm 0.003) \text{ W/(m}^{\circ}\text{K)}$
Water absorption	W0
Water demand	approx. 90 %
Water vapour permeability	6 $\mu$
Note	values in the technical data are laboratory values.

## Customs tariff number

32149000

## MIG DHMb<sup>®</sup> Lining System – Products

### Primers

MIG-ESP<sup>®</sup> Primer  
 MIG-ESP<sup>®</sup> Sealing Primer  
 MIG-ESP<sup>®</sup> Special Primer  
 MIG-ESP<sup>®</sup> Primer quartz-filled  
 MIG-ESP<sup>®</sup> Primer for Wood (for indoor use only)  
 MIG-ESP<sup>®</sup> PVC Primer

### Plasters

MIG 262  
 MIG Therm M 65

### Finish coats

MIG-ESP<sup>®</sup> Interior  
 MIG-ESP<sup>®</sup> Interior Anti-Microbial  
 MIG-ESP<sup>®</sup> Exterior

## Legal information

The data contained herein are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data are to be construed as general guidelines only and do not relieve users from carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. Any property rights and existing laws and regulations must always be observed by the user at his own responsibility. With the publication of this data sheet all previous editions cease to be valid.