

MIG DHMb® Lining System MED  
For interior application

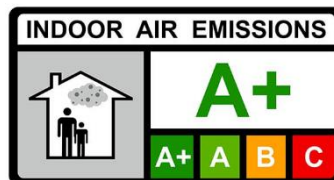
# MIG-ESP® Interior Anti-Microbial



## Smart Coating

- ✓ > 99.99 % bacterial reduction
- ✓ no additional biocides
- ✓ heating and cooling regulation (Infrared reflection)
- ✓ better indoor climate due to lower heating demand
- ✓ reducing condensation
- ✓ stable and comfortable room climate
- ✓ awarded the certificate "Recommended for healthy housing" by the Society for Medically Sound Lodgings, Building Hygiene and Indoor Toxicology e.V.
- ✓ antibacterial effect
- ✓ recommended for ecological, energy efficient renovation
- ✓ natural prevention against molds
- ✓ reducing CO<sub>2</sub> emissions

**Important:** In patient areas, MIG-ESP® Interior Anti-Microbial can help prevent and/or reduce hypothermia and hyperthermia.



## Product description

MIG-ESP® Interior Anti-Microbial is an interior coating based on the MIG DHMb® Lining technology (DHMb® = Double Hybrid Membrane) according to DIN EN 13300.

MIG-ESP® Interior Anti-Microbial can be applied with paint rollers, brushes or spraying units.

MIG-ESP® Interior Anti-Microbial can be used with an appropriate primer on a variety of substrates in the entire indoor area. MIG-ESP® Interior Anti-Microbial is the finish coat for MIG Therm M 65 and MIG 262. Further areas of application include renovations on all paint-bearing substrates. The MIG-ESP®- color chart offers a wide range of color choices.

## Technical consulting service

Phone: +49 5258 97482 0

E-Mail: info@mig-mbh.de



## Processing and substrate pretreatment

**MIG-ESP® Interior Anti-Microbial** is fast-drying and odorless during application, which also allows processing during room use.

Before processing, stir the material mechanically for approx. 3 minutes. Cover all adjacent components well or protect against splashes.

Do not process when the relative air humidity is high.

Spread **MIG-ESP® Interior Anti-Microbial** evenly with suitable rollers, brushes or appropriate spraying units. The nozzle size should be between 0.036" (0.91 mm) and 0.045" (1.04 mm) depending on use. Do not mix **MIG-ESP® Interior Anti-Microbial** with other materials. When using rollers or brushes, a dilution with drinking water or **MIG-ESP® Sealing Primer** of max. 5 %, and when using spraying units, a dilution of max. 10 %, is recommended for better processing. The object and ambient temperature should not be below + 5 °C and not above + 35 °C during application. Shading is necessary when exposed to sunlight. Surface drying can be achieved after only approx. 30 minutes. The dry-through time for each of the two coating processes is approx. 24 hours under normal conditions (+ 20 °C/65 % relative air humidity). Lower temperatures and higher relative air humidity may extend the dry-through time.

The substrate must be dry, solid, free from dust and loose parts or release agents. For absorbent substrates, a priming coat with **MIG-ESP® Sealing Primer** is required. This consolidates the substrate and compensates for different absorption characteristics. For metal, concrete and gypsum surfaces as well as contaminated, penetrating substrates we recommend **MIG-ESP® Special Primer** as a bonding agent. For highly absorbent surfaces such as stucco plaster, porous lightweight concrete, aerated concrete, mineral insulating plaster, foamed concrete, foam glass, silicate and insulating boards, it is generally necessary to apply **MIG-ESP® Sealing Primer** twice. Use **MIG-ESP® PVC Primer** for tents and tarps.

➤ A layer thickness of 0.40 mm is required to achieve the full effectiveness of the **MIG DHMb® Lining Technology!** When applying **MIG-ESP® Interior Anti-Microbial** with a roller or a brush, experience has shown that two coats are necessary for the required layer thickness. When applying tinted **MIG-ESP® Interior Anti-Microbial**, **MIG-ESP® Interior Anti-Microbial, White** must be used as the first coat, followed by the second coat which is tinted.

Any structural defects or damages must be remedied before application!

Coating procedure

1. Substrate preparation	Substrate must be dry, free from dust, loose parts and release agents
2. Apply primer	Depending on substrate (see page 4, MIG DHMb® Lining System – Products → Primers), apply e.g. MIG-ESP® Sealing Primer as plaster strengthener. Allow to set for approx. 1 hour. Use MIG-ESP® PVC Primer for tents and tarps.
3. Stir	Stir MIG-ESP® Interior Anti-Microbial for approx. 3 minutes with an electric stirrer until the consistency is creamy, thixotropic
4. First coat	Spread MIG-ESP® Interior Anti-Microbial, White evenly <b>in a crosswise motion</b> and as a final step, roll off in one direction
5. Drying time	24 hours drying time between both coating processes
6. Second coat	Spread MIG-ESP® Interior Anti-Microbial, White or tinted evenly <b>in a crosswise motion</b> and as a final step, roll off in one direction

Technical data

solvent-free (see ECO-Report), environmentally friendly and odorless

for longer open times (e.g. at high temperatures), MIG-ESP® Interior Anti-Microbial can be diluted with MIG-ESP® Sealing Primer by up to 5 % or 10 % when using spraying units

water-repellent, microporous and non-film forming

highly water vapor permeable (sD value 0.06 m ± 0.02 according to EN ISO 7783-2)

water absorption, w-value after 24 hours < 0.50 kg/m<sup>2</sup>h<sup>0.5</sup> according to DIN EN 1062-3 (W2)

wet abrasion class III

opacity class II at approx. 0.25 ltr/m<sup>2</sup>

degree of whiteness: Y = 85 (± 2.5)

gloss grade: matt (DIN 53778)

pH-value 9.0 (± 1.0)

density 1.15 g/cm<sup>3</sup> (± 0.1)

degree of reflection > 90 % for white coating

crack-filling up to approx. 0.50 mm

antimicrobial effect (99.99 % MRSA and Escherichia coli reduction) according to ISO 22196 (see test report QualityLabs BT GmbH)

## Consumption

Depending on the type and porosity of substrate, approx. 0.40 ltr/m<sup>2</sup> with two coats on smooth surfaces.

➔ Rough, structured or highly absorbent surfaces can significantly increase consumption. Exact consumption quantities can be determined by creating test areas.

## Cleaning

Clean tools thoroughly with water after use. The containers must be emptied completely and recycled.

## 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. Tinted goods must be processed within 3 months.

## Packaging

5 / 15 ltr plastic buckets  
1,000 ltr IBC

## Customs tariff number

32099000

## MIG DHMb® Lining System - Products

### Primers

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

### Plasters

MIG 262  
MIG Therm M 65

### Finish coats

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

## Warranty

We offer a 10-year quality guarantee on **MIG-ESP® Interior Anti-Microbial**. This warranty applies exclusively to the product applied to the surfaces by professional painters and **not** to the related services in compliance with our warranty conditions. An unbroken chain of evidence showing the correct application of the product must be provided.

For the warranty conditions form:



## 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.

The innovative thin-layer insulation is a new state of the art and therefore cannot be tested with the existing standards (the current state of technology)! MIG has developed a test method to calculate the correct U-value with the thin-layer insulation.