

MIG DHMb® Lining System
For exterior application

MIG-ESP® Exterior

- ✓ heating and cooling regulation (infrared reflection)
- ✓ non-flammable - A2 fire protection class
- ✓ brilliant facades through reflection of light
- ✓ improves durability of facades
- ✓ prevents algae and fungi in a natural way
- ✓ recommended for ecologically energetic renovation
- ✓ CO₂ savings



Product description

MIG-ESP® Exterior is an exterior coating based on the MIG DHMb® Lining Technology (DHMb® - Double-Hybrid-Membranel).

MIG-ESP® Exterior can be applied with a paint roller, brush or air-less spraying equipment.

MIG-ESP® Exterior can be used with an appropriate primer on a variety of substrates in the entire outdoor area. MIG-ESP® Exterior is the finishing coating for MIG-ESP® M 65 and MIG 262. Further areas of application are renovation coatings on all paint-bearing substrates and on old and new insulation facades.

The MIG color chart gives you a wide range of colors to choose from.

Technical consultation services

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www.mig-esp.com

Processing and substrate pretreatment

MIG-ESP® Exterior is quick-drying and colorless during application. Before processing, the material must be stirred mechanically for approx. 3 minutes. Cover all adjacent components well or protect against splashes.

Do not use in direct sunlight, rain or high humidity.

MIG-ESP® Exterior should be spread evenly with a suitable roller or brush or appropriate airless spraying tools. The nozzle size should be between 0.036" (0.91 mm) and 0.045" (1.04 mm) depending on use. MIG-ESP® Exterior must **not** be mixed with other materials during processing with roller, brush. When using injection tools, a dilution with drinking water or MIG-ESP® Primer or Sealing Primer of max. 5 % is recommended for better processing. The object and ambient temperature must not be below +5°C and not above +30°C during application. Shading is advisable at summer temperatures. A superficial drying is already achieved after approx. 30 minutes.

The through-drying time per coating process is approx. 24 hours under normal conditions (+20°C/65 % air humidity). Lower temperatures and higher humidity extend the through-drying time.

The substrate must be dry, solid, free of dust and loose parts or separating agents. On absorbent substrates, a priming coat with MIG-ESP® Primer or plaster hardener is required. To avoid discoloration of the substrate, a pre-treatment with MIG-ESP® Primer or Sealing Primer is necessary. For metal and concrete surfaces as well as cement fiber boards we recommend MIG-ESP® Sealing Primer as an adhesive bridge.

▶ A layer thickness of 0.4 mm is required to achieve the full effectiveness of the MIG DHMb® Lining Technology! When applying MIG-ESP® Exterior with a roller or brush, experience has shown that two coating processes are necessary for the required layer thickness. When processing a colored MIG-ESP® Exterior, MIG-ESP® Exterior white must be used for the first coating process. Any structural defects or damages must be remedied before application!

Coating procedure

1. Substrate preparation	Substrate must be dry, free of dust, loose parts and release agents.
2. Apply primer	Depending on substrate, apply MIG-ESP® Primer/Sealing Primer, plaster strengthener - allow to set for approx. 1 hour.
3. Stir	Stir MIG-ESP® Exterior with an electric stirrer for approx. 3 minutes until the texture is creamy.
4. First coat	Distribute MIG-ESP® Exterior white evenly in a crosswise pattern and roll in one direction in the final step.
5. Drying time	24 hours drying time between both coats.
6. Second coat	Spread MIG-ESP® Exterior colored or white evenly in a crosswise pattern and roll in one direction in the final step.

Technical properties

solvent-free, environmentally friendly and colorless

for longer open times (e.g. at high temperatures) MIG-ESP® Exterior can also be diluted up to 5 % with MIG-ESP® Primer or Sealing Primer

water-repellent, microporous and non film-forming

building material class A2 (non-flammable)

highly water vapour permeable (sD -value 0.05 m ± 0,02 according to EN ISO 7783-2)

capillary water absorption w-value after 24 hours 0.05 Kg m²h^{0.5} according to DIN EN 1062-3

gloss grade: matt (DIN 53778), pH-value 9.0 (± 1.0)

Density 1.05 g/ cm³ (± 0.05)

viscosity: 2500 mPas (± 500)

degree of reflection > 90% for white coat

highly resistant to UV-A

Fire behavior

MIG-ESP® Exterior fulfils the requirements of building material class A2 for non-flammable building materials according to DIN 4102, part 1 (May 1998) with an application rate of 400 g/m², applied to solid mineral substrates.

Test institute Hoch, Lerchenweg 1, D-97650 Fladungen, Test certificate PZ-Hoch-131357

UV and weather resistance

MIG-ESP® Exterior is extremely weather-resistant and UV-stable. This ensures a long-lasting facade hygiene (against soiling, algae infestation, etc.). All details can be found in the **test report no. 130608** - ILF Forschungs- und Entwicklungsgesellschaft Lacke und Farben mbH. The high degree of reflection gives the buildings a long-lasting brilliance which is a delight to the eyes.

U-value Effect

Hygrothermal energy efficiency simulation (**WUFI® Pro**) can be performed on request.

Consumption

Depending on the type and absorbency of the substrate, approx. 0.2 - 0.3 l/m² with a single coat of paint.

➤ **Rough or highly absorbent surfaces can increase consumption. Exact consumption quantities are to be determined by creating test areas.**

Cleaning

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

Storage

Protect against frost. Can be stored for at least 12 months in original sealed containers. See imprint for date of manufacture.

Delivery form

5 / 15 liters plastic buckets

1000 liters IBC

Customs tariff number

32099000

MIG DHMb® Lining System – Products

Undercoats

MIG-ESP® Primer
 MIG-ESP® Sealing Primer
 MIG-ESP® Special Primer
 MIG-ESP® Primer filled with quartz
 MIG-ESP® Wood Primer

Plasters

MIG 262
 MIG M 65

Coatings

MIG-ESP® Interior (**Inside**)
 MIG-ESP® Exterior (**Outside**)

Warranty

We give a 10-year quality guarantee on our exterior coating MIG-ESP® Exterior. 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.

For the warranty form visit our website at

www.mig-esp.com/warranty



Legal information

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