



# MS Flexlim III Eco

## Data Sheet

**HØRNING MS Flexlim III Eco** is a phthalate-free elastic adhesive.

The glue does not contain water, isocyanates, or solvents, thus the wood floor is not affected during the curing of the glue. The glue hardens by the humidity of the air.

### Highlighted Features:

- Compatible with HØRNING Moisture Barrier
- Fast-curing and long-lasting
- Simple application and suitable for various subfloors
- Documented sustainability credentials towards certifications such as BREEAM, DGNB, and LEED through Emicode EC1 PLUS, EPDs and Eurofins

If you have any questions or need advice, please don't hesitate to contact us.

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### Applications

**HØRNING MS Flexlim III Eco** can be used for all wood floors against wood, concrete, steel, and aluminum substrates. It is always recommended that a test is performed.

HØRNING MS Flexlim III Eco is particularly suitable for concrete floors as concrete floors in new construction rarely achieve residual moisture below 65% RH, which is required when using other types of parquet adhesives.

Concrete floors are also very hard, and the use of HØRNING MS Flexlim III Eco provides increased walking comfort and reduces the ‘drum’ sound, ie. the sound that is heard in the room as the floor enters. Increased walking comfort and reduced drum sound are achieved especially when using 1 litre of glue per m².

HØRNING MS Flexlim III Eco can also be used on subfloors of e.g. metal and ceramic tiles. This requires the metal to be degreased and ceramic tiles, terrazzo or marble sanded with grain 16, 24, or 36, or sanded with diamond grinders. A longer cure time must be expected.

HØRNING MS Flexlim III Eco can be used for full adhesion of all types of solid parquet, planks, strips, mosaic parquet, Industrial parquet, End grain, and engineered planks. The wood floor can be untreated or finished with lacquer, oil, etc.

### Technical Data

Glue Type:	1 Component
Binder:	Moisture-curing MS polymer
Colour:	Brown
Density	Approx. 1.56 kg/l
Opening Hours:	Approx. 45 minutes at + 20°C and 50% R.H. This varies with temperature and humidity. At higher temperatures and humidity, the opening hours are reduced. At lower temperatures and humidity, the opening hours and the curing time are longer.
Curing Time:	Min. 48 hours depending on temperature and humidity.
Stretch Ability:	Approx. 0.5-1.0 l/m² depending on the residual moisture in the concrete floor, the type of wood flooring and the flatness of the subfloor as well as the fitter’s care.
Dilution:	Never dilute the glue
Fire:	The glue is not flammable
Hazard Class:	Emicode EC1 PLUS
Occupational Hygiene:	Glue on the skin can be removed with alcohol and then washed with water and soap. Clean the tool with a cloth while the glue is still wet. Cured adhesive is removed mechanically.
Storage:	The glue is stored frost-free and preferably at 10-25°C
Transport:	The adhesive can be transported down to -25°C
Application:	The temperature of the adhesive when used must be 17-25°C
Shelf Life:	12 months from the date of production in unopened original packaging. Cool storage.

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### Work Description

Installation of wooden floors should not be done until all other craftsmanship in the room is completed. Installation of wooden floors must not begin unless the walls or ceiling are dry.

The room's future normal climate should be achieved at least one week before the installation of the wood flooring. The temperature must be 17-25°C and the relative humidity of the room must not exceed 65%. The optimum opening hours when using the adhesive is approx. 45 minutes at 20°C and 50% R.H.

The subfloor must be firm, level, without cracks, and clean. Concrete floors must have a residual moisture of less than 85% and must have a vapor barrier built into the subfloor.

The adhesive does not help against rising moisture. For using underfloor heating, **kindly contact Hørning**.

Tolerances in the subfloor must be less than +/- 2 mm per 2 m straight. Hørning installation guidelines must always be followed with regard to preparation, acclimatisation, room climate, etc.

HØRNING MS Flexlim II Eco must be acclimatised in the fitting room before use. If there is underfloor heating in the room, Hørning's instructions for installing wood floors on underfloor heating must be strictly adhered to.

Always check the moisture in the subfloor as well as the temperature and humidity before and during installation with true calibrated measuring instruments. The subfloor must have a temperature of min. 17°C.

For new concrete floors with expected residual moisture of between 65% and 85% RH, we recommend that the moisture in the subfloor is measured by a third party relating to priming: **Kindly contact Hørning**.

#### Concrete floors with residual moisture below 65% RH and other types of subfloors:

Use a coarse toothed trowel that provides a tensile capacity of 0.5 l/m².

If increased walking comfort and reduced drum sound is desired, the adhesive consumption can be increased to 1 l/m². Planks are always glued with 1 l/m².

#### Concrete floors with residual moisture between 65% and 85% RH:

Use a special 2-leg trowel that provides a stretching capacity of 1 l/m². Press the wood floor down into the wet adhesive and apply, for instance, a rubber hammer so complete attachment is obtained.

Check regularly that the wood floor is in full contact with the adhesive. Always ensure that the wooden floor has full contact with the adhesive, and therefore weight load must be applied to wooden floors with tongue/groove, and wood floors without tongue/groove, i.e. mosaic parquet, strips, high-edge parquet, and brick floors.

### Note

Depending on temperature and humidity, the adhesive's opening time may be less than 25 minutes. If wet adhesive is applied to the surface of the finished floor, the wet adhesive should be wiped thoroughly with a clean, damp cloth. After installing the wooden floor, do not enter the floor for the next 48 hours, and any surface treatment of the floor must take place no earlier than 48 hours after installation.

Once opened, buckets of glue must be carefully resealed and used promptly, as there is a high risk of the glue hardening. Sanding and surface treatment of the wooden floor should not take place until 48 hours after installation at the earliest, depending on the climate - the lower the humidity, the longer the cure time.

The above data and directions are recommendations based on the manufacturer's experience and experiments. The instructions are intended to help installers find the best working methods as well as instructions for using product selection. Since the installers' working conditions are beyond our control, we cannot guarantee any responsibility for the result.

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### Environment



FSC® and/or PEFC available upon request.  
Eurofins Indoor Air Comfort Gold certified.  
EPD available upon request for selected products.