



# SCHÖNOX MBL

## Moisture Blocking Leveler

2 part leveling compound used on concrete substrates to control moisture before the application of floor coverings. Moisture Mitigation System and subfloor leveling in one step.



### Product characteristics

- EMICODE EC 1 PLUS: very low emission
- up to -40% CO<sub>2</sub> emissions
- suitable on substrates with residual moisture
- dense, poreless mortar structure
- self-leveling
- quick drying time
- ready for laying after approx. 12 hours
- moisture blocking properties
- layer thicknesses above 1/8" up to 1/2"
- suitable for castor wheel loadings
- highly synthetic-resin modified

### Applications

**Self leveling and moisture mitigation in one step on moisture-resistant cement based substrates from a minimum layer thickness of 1/8" prior to install.**

- LVT
- VCT
- Carpet Tile
- Wood Flooring
- Ceramic Tile

**Sheet Goods, Rubber or any other flooring requiring wet set or semi wet must be applied with reactive adhesives or adhesives approved for non-porous substrates.**

- Up to 99% RH or 18 lbs. / 1000 sq.ft. 24 hrs on unheated concrete.

### Requirements

- Before applying SCHÖNOX MBL, a Moisture Vapor Emission Rate per ASTM F-1869 and a relative humidity of the concrete, using ASTM F-2170 must be obtained.
- Substrates must be profiled to achieve CSP 2 - 3 prior to the use of SCHÖNOX MBL.
- Substrates must be classified as porous according to ASTM 3191 standards.
- Concrete must support a minimum adhesion strength of 150 psi (1 MPa) when tested per ASTM D-4541 (tensile bond test).
- Subfloors must be smooth, sound, clean and free of any contaminants which may hinder adhesion.
- Old adhesive residues or any previous floor preparation materials such as old levelers or patch should be removed completely by suitable mechanical means.
- The complete mechanical removal of cutback (i.e. grinding, sanding, blasting) can be hazardous as old cutback adhesive may contain asbestos. Do not sand or grind adhesive residue. Refer to the Resilient Floor Covering Institute's publication recommended work practice for removal of resilient floor coverings" for instruction. Prime remaining adhesive residues accordingly.

- To ensure an ideal, dust-free surface, vacuum the substrate properly using an industrial vacuum cleaner.
- The substrate surface must be visually dry to ensure a suitable adhesion of SCHÖNOX MBL.
- Substrate temperature must be at least 5°F away from the dew point during application and drying to avoid condensation on the surface.
- Do not use moisture mitigation systems or SCHÖNOX MBL on gypsum based substrates.
- Do not use SCHÖNOX MBL where hydrostatic pressure conditions exist or where moisture vapor emissions exceed the recommended levels.
- The requirements of the relevant valid standards, guidelines and data sheets apply.
- For projects on or below grade without an intact vapor barrier, EPA or EPA Rapid is recommended

### Priming

- porous substrates such as Concrete, cement screeds, and SCHÖNOX moisture-resistant materials, prime with SCHÖNOX KH Fix

### Mixing ratio

- Mix each 52 lb. bag SCHÖNOX MBL Part A with 1.6 gal. SCHÖNOX MBL Part B.

**Do not mix with water!**

### Recommended method of working

- Carry out preparatory work:
  - For prelevel preparatory work use SCHÖNOX SL, SCHÖNOX PL, SCHÖNOX US, or SCHÖNOX S1500.
  - Repair non moving cracks using Schönox SL or SCHÖNOX FP with SCHÖNOX RENOTEX. Moving joints must be honored up to the final surface.
- SCHÖNOX MBL Part B is shaken before use.
- Using a clean receptacle, add SCHÖNOX MBL Part A to SCHÖNOX MBL Part B to form a homogeneous mixture. Mix thoroughly for approx. 3 minutes using a heavy-duty drill (min. 600 rpm) to obtain a lump free mix.
- Minimum layer-thickness is 1/8".
- The respective minimum layer thickness always refers to the layer thickness at the highest point.
- Do not mix more material than can be handled within 30 minutes.
- Avoid contact with vertical structures such as walls and columns by using SCHÖNOX Foam tape.

### Technical data

- Pot life: approx. 30 minutes
- ready for foot traffic:
  - after approx. 3 hours
- ready for covering:
  - up to 1/8" after approx. 12 hours
  - up to 1/2" after approx. 24 hours
- working temperature: 41°F - 90°F
- SCHÖNOX MBL can be installed from 1/8"-1/2"
- SCHÖNOX MBL must be poured at a minimum of 1/8" to 3/16". SCHÖNOX MBL minimum layer thickness always refers to the layer thickness at the highest point of the installation
- coverage per unit:
  - SCHÖNOX MBL will provide 56 sq. ft. at a minimum of 1/8" to 38 sq. ft. at 3/16", the average yield per unit is 44 sq. ft. depending on substrate conditions
- compressive strength (ASTM C109):
  - 5500 psi / 35 N/mm<sup>2</sup> / 400 kg/cm<sup>2</sup> after 28 days
  - 3600 psi / 15 N/mm<sup>2</sup> / 160 kg/cm<sup>2</sup> after 1 day
- flexural strength (ASTM C348):
  - approx. 900 psi / 7 N/mm<sup>2</sup> after 28 days
- Permeance (ASTM 96): ≤ 0.4 perm

All values are approximate, are subject to local climatic fluctuations based upon conditions at 70°F with atmosphere of less than 65 % relative humidity following the recommended mixing ratio. Do not install underlayment or topping before the substrate has dried thoroughly.



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- If a second layer of levelling compound is to be applied, the first levelling compound layer should be primed with SCHÖNOX KH FIX
- Protect curing SCHÖNOX MBL leveling layers from high ambient temperatures, direct sunlight and draughts.
- If sanding of SCHÖNOX MBL after drying is necessary, use a paper or screen with grit-size 60.
- Contact to metal like water-bearing pipes must be avoided (e.g. sealing of pipe penetrations), because especially galvanized steel pipes have no sufficient corrosion protection.
- Clean tools in water immediately after use.
- SCHÖNOX MBL must be safeguarded against damage throughout the construction process or immediately covered with flooring after the appropriate dry time. If SCHÖNOX MBL sustains damage, it will compromise its moisture mitigation capabilities, necessitating the installation of an extra layer of SCHÖNOX MBL.
- Cracking of the SCHÖNOX MBL will allow free passage of vapor and negatively impact the product's moisture blocking properties.
- Use SCHÖNOX EMICLASSIC or SCHÖNOX ROLL AND GO for pressure sensitive applications.
- **Due to its dense pore structure, the leveling compound has only limited absorptency. Therefore, not every adhesive is suitable. Wet set or semi wet set applications should only be one with reactive adhesives such as SCHÖNOX PROTECT or SCHÖNOX PU 900 or adhesives approved for non porous substrates when installing impervious floor coverings.**
- Because of SCHÖNOX MBL's distinct characteristics, SCHÖNOX consistently advises conducting thorough bond testing in accordance with ASTM F3311-19 Standard Practice for Mat Bond Evaluation of Performance and Compatibility for Resilient Flooring System Components before installation.
- If porosity is required for the adhesive and or floor system, either prime with KH FIX and install 1/8" of XM or thoroughly skim coat with Schönox SL (minimum of 1/16"). Please refer to adhesive and floor covering manufacturer for specific substrate requirements.

## Packaging

- SCHÖNOX MBL Part A 52 lb. paper bag (powder component)
- SCHÖNOX MBL Part B 1.6 gal. plastic canister (dispersion component)

## Storage

- Store SCHÖNOX MBL in cool, frost-free conditions.
- Storage life of 12 months (in closed packaging).

## Disposal

- Empty packaging and dispose of in accordance with federal, state and local waste disposal regulations.

## EMICODE

- EC 1<sup>PLUS</sup>: very low emission

## Instructions

- Always install an adequate number of properly located test areas, to include the finish flooring, to determine the suitability of the product for its intended use. As floor coverings vary, always contact and rely upon the floor covering manufacturer for specific directions such as maximum allowable moisture content, adhesive selection, and intended end use of the product.

## LEED

Contributes to LEED v4.1 certification of projects in the categories:

- EQc2 - 3 points  
Low-Emitting Materials
- MRc1 - up to 2 points  
Life-Cycle Impact Reduction
- MRc2 - 1 point  
Environmental Product Declaration
- MRc4 - 1 point  
Material Ingredients

Prior to each use of any SCHÖNOX product, the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [www.hpsubfloors.com](http://www.hpsubfloors.com), or by calling the HPS SCHÖNOX Technical Service Department at 855-391-2649. Nothing contained in any SCHÖNOX materials relieves the user of the obligation to read and follow the warnings and instruction for each SCHÖNOX product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to product use. This product data sheet supersedes all previous editions.



Management system certified to ISO 9001 and 14001 by SQS.

## In North America provided by:

HPS North America, Inc  
511 Wilhite Street Florence, AL 35630  
Phone: 256.246.0345  
Fax: 256.246.0346  
Email: [info@hpsubfloors.com](mailto:info@hpsubfloors.com)  
<http://www.hpsubfloors.com>



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