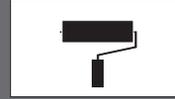


SCHÖNOX MR 18

Rapid Drying, Ready-Mixed Moisture Mitigation System and Substrate Solidifier

SCHÖNOX MR 18 is suitable to mitigate residual moisture up to 99% RH or 18 lbs./1000 sq.ft./24 hrs. in interior areas before installing suitable resilient floor coverings using the premium resilient flooring adhesive SCHÖNOX PROTECT. Suitable to solidify weak substrates and to prime adhesive residues.



Product characteristics

- EMICODE: EC 1^{PLUS} - very low emission, regulated
- rapid drying
- solvent-free
- for interior use only
- water resistant
- excellent penetration
- high coverage
- short waiting time
- ready mixed
- easy to apply
- solidifies weak substrates
- excellent bond to adhesive residues

Applications

- on unheated, moisture-resistant cement based substrates with residual moisture before applying SCHÖNOX underlayments prior to install flexible coverings as well as wood floor.
- Up to 93% RH or 12 lbs./1000 sq.ft./24 hrs. SCHÖNOX MR 18 is applied as a 1 coat system.
- Above 93% RH or 12 lbs./1000 sq.ft./24 hrs. up to 99% RH or 18 lbs./1000 sq.ft./24 hrs. (to be combined with SCHÖNOX PROTECT) SCHÖNOX MR 18 is applied as a 2 coat system (following flooring installed with SCHÖNOX PROTECT only).
- **SCHÖNOX MR 18 can be used as a one coat system to solidify substrates such as wood, gypsum or adhesive residues building up a closed film.**

Requirements of substrate

- Before applying SCHÖNOX MR 18, a Moisture Vapor Emission Rate per ASTM F-1869 or 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 MR 18.
- Subfloors must be porous, smooth, sound, clean and free of any contaminants which may hinder adhesion. (per ASTM F3191)
- Approve on porosity doing a water drop test following the standards. Sprinkle water onto the surface, if water forms droplets without absorbing within 2 minutes, the surface is non porous and is probably contaminated with sealers, curing compounds, abatement chemicals or oil. Such invisible contaminants must be removed completely by mechanical methods such as shot blasting.
- Concrete must support a minimum adhesion strength of 150 psi (1 MPa) when tested per ASTM D-4541 (tensile bond test).
- Surface treatments or any "friable" areas of the subfloor must be mechanically

removed and the subfloor repaired with water resistant SCHÖNOX underlayments as required.

- Repair non structural cracks using SCHÖNOX SGH following the referring product data sheet. Moving joints must be honored up to the final surface.
- Old water-soluble adhesives should be removed completely, old water-resistant adhesives should be mechanically removed as far as possible. 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 with SCHÖNOX MR 18 building up a closed film.
- To ensure an ideal, dust-free surface, vacuum the substrate properly using an industrial vacuum cleaner.
- The subfloor surface must be visually dry to ensure a suitable adhesion of the vapor barrier.
- 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 on gypsum based substrates.
- Do not use SCHÖNOX MR 18 where hydrostatic pressure conditions exist or where moisture vapor emissions exceed the recommended levels.
- SCHÖNOX MR 18 may be used as a moisture barrier to protect moisture sensitive substrates from topical moisture.
- The requirements of the relevant valid standards, guidelines and data sheets apply.
- Schonox MR18 can be used on wooden subfloors (up to household moisture content) as moisture inhibitor in a single coat application. Do not apply 2 coats of Schonox MR18 to wood substrates.

Recommended method of working

- SCHÖNOX MR 18 is stirred or shaken before use.
- Apply SCHÖNOX MR 18 evenly, avoiding puddles using a foam roller or 1/4" nap roller.
- Apply the first coat of SCHÖNOX MR 18 building up a closed film. When required, the 2nd coat is applied crosswise after a waiting time of approx.1 hour.

Technical data

- basis: polyurethane resin
- color: yellow
- density: 1.18 kg/l
- storage temperature: not below 41 °F
- working temperature: not below 59 °F
- coverage per unit:
 - 1000 sq.ft. (based on one coat system)
 - 500 sq.ft. (based on two coat system)
 The finished application must cover the substrate completely without any voids or pinholes to ensure moisture vapor suppression!
- ready to apply 2nd coat: approx. 1 hour (or dry to the touch)
- ready for leveling (after applying final coat): approx. 1 hour (or dry to the touch) (see 'Recommended method of working')
- Permeance (ASTM E96): ≤ 0.4 perm (2 coats)

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.



SCHÖNOX MR 18

- Where floor coverings to be installed require an additional smoothing: After a drying time of approx. 1 hour (no transfer to the touch) prime with SCHÖNOX SHP following the referring product data sheet prior to install a cement based, moisture resistant SCHÖNOX underlayment or patching compound. Always allow SCHÖNOX MR 18 to dry overnight prior to install a synthetic gypsum based SCHÖNOX underlayment or patching compound.
- When installed as a two coat system up to 99% RH or 18 lbs/1,000 sq.ft./24 hrs, suitable resilient floor coverings can be installed directly to SCHÖNOX MR 18 after a drying time of at least 2 hours and within 48 hours using the premium flooring adhesive SCHÖNOX PROTECT following the referring product data sheet.
- If any following materials are not applied within the first 48 hours after drying of SCHÖNOX MR 18, then always rough the top surface of SCHÖNOX MR 18 up using a suitable pad, but without affecting the moisture mitigation properties.
- Clean tools immediately after use with a suitable cleaner.

Mixing ratio

- Apply undiluted

Packaging

- 2.5 gallons in plastic container

Storage

- Store in cool, frost-free conditions.
- Shelf life: 1 year unopened.

Disposal

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

VOC Content

- 0g/l (calculated), SCAQMD 1113

LEED

May contribute to LEED v4 in categories:

- EQc2 - 3 points
Low-Emitting Materials
- MRC2 - 1 point
Environmental Product Declaration
- MRC4 - 1 point
Material Ingredients

Environmental Product Declaration (EPD)

- Declaration number:
EPD-FEI-20220109-IBG1-EN

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.
- Low substrate temperatures and/or high ambient humidity require longer drying times.

Precautions

- Avoid eye and skin contact. Close container after each use. Do not reuse container. Do not flush primer down drains, sewers or waterways.

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, 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
<http://www.hpsubfloors.com>

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