

SCHÖNOX SDG

Rapid Drying, Ready-Mixed Acrylic Moisture Mitigation System

Suitable on unheated cement based substrates with residual moisture up to 93% RH or 12 lbs./1000 sq.ft./24 hrs. in interior areas before applying SCHÖNOX underlayments.



Product characteristics

- EMICODE EC 1^{PLUS}: very low emission
- rapid drying
- solvent-free
- for interior use only
- water resistant
- excellent penetration
- high coverage
- short waiting time
- ready mixed
- easy to apply
- no additional primer needed before leveling

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 90% RH or 10 lbs./1000 sq.ft./24 hrs. SCHÖNOX SDG is applied as a 2 coat system.
- Above 90% RH or 10 lbs./1000 sq.ft./24 hrs. up to 93% RH or 12 lbs./1000 sq.ft./24 hrs. SCHÖNOX SDG is applied as a 3 coat system.

Requirements of substrate

- Before applying SCHÖNOX SDG, 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 SDG.
- Subfloors must be porous, smooth, sound, clean and free of any contaminants which may hinder adhesion.
- 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 PGH 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.
- 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 SDG 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.

Recommended method of working

- SCHÖNOX SDG is stirred or shaken before use.
- Apply SCHÖNOX SDG avoiding puddles using a suitable tool such as a long-piled 3/8" nap roller avoiding puddles.
- Apply the first coat SCHÖNOX SDG to fill the pores. After a waiting time of approx. 15 minutes (at 65 °F floor temperature) or after drying apply the second coat crosswise to build up a tight film. When required, the 3rd coat is applied crosswise again after a waiting time of approx. 60 minutes.
- As a 2 coat system after approx. 1 hour (at 65 °F floor temperature) or after drying the substrate is ready for applying a SCHÖNOX leveling compound. When applied as a 3 coat system, the SCHÖNOX leveling compound can be applied the following day after at least 16 hours.
- Clean tools in water immediately after use.

Technical data

- basis: acrylic dispersion
- color: yellow
- density: 1.2 kg/l
- storage temperature: not below 41 °F
- working and substrate temperature: not below 59 °F
- coverage:
 - 350 - 400 sq.ft. per unit based on a two coat system
 - 220 - 270 sq.ft. per unit based on a three coat system
- ready to apply 2nd coat: approx. 15 minutes
- ready to apply 3rd coat: approx. 60 minutes
- ready for foot traffic (after applying 2nd or 3rd coat): approx. 45 minutes
- ready for leveling (after applying 2nd coat): approx. 1 hour
- ready for leveling (after applying 3rd coat): approx. 16 hours
- Permeance (ASTM E96):
 - ≤ 0.4 perm (2 coats)
 - ≤ 0.2 perm (3 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.



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Mixing ratio

- Apply undiluted

Packaging

- 2.2 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-DIV-20140058-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.

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In North America provided by:

HPS North America, Inc

Phone: 256.246.0345

Fax: 256.246.0346

Email: info@hpsubfloors.com

<http://www.hpsubfloors.com>

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