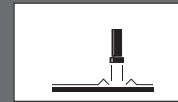




SCHÖNOX AP RAPID PLUS

Self-leveling Compound based on Hybrid Active Dry Technology

Designed for deep pour, fast track installations on most substrates in interior areas such as apartment buildings. SCHÖNOX AP RAPID PLUS can be installed above 1/8" up to 3", in small, well defined areas without limitation.



Product characteristics

- EMICODE EC 1^{PLUS} R: very low emission
- based on Hybrid Active Dry Technology
- for interior use only
- designed for fast track installations in residential areas
- self-leveling
- suitable on underfloor heating systems
- very low shrinkage
- low dust
- pumpable
- suitable for castor wheel loadings
- layer thicknesses above 1/8" up to 3"

Applications

SCHÖNOX AP RAPID PLUS is suitable for filling, smoothing and leveling of substrates under:

- flexible coverings
- under wood floor, layer thickness at least 1/8" (use elastic adhesives only)
- suitable coatings

Substrates

SCHÖNOX AP RAPID PLUS is suitable on:

- concrete
- cement substrates
- gypsum substrates
- old substrates such as ceramic tiles, terrazzo and sheet vinyl/rubber/resilient floor coverings
- old, water-resistant adhesive residues
- OSB board, plywood (well screwed and/or bonded)

Requirements of substrate

- Subfloors must be smooth, sound, clean, dry and free of any contaminants which may hinder adhesion.
- Surface treatments or any "friable" areas of the subfloor must be mechanically removed back to a sound base and the substrate repaired with SCHÖNOX repair compounds as required.
- All slabs on or below grade level must be known to have an intact vapor retarder directly beneath the concrete in conformance to the relevant standards. If in doubt, please contact our SCHÖNOX representative for further advice.
- This product is not a vapor barrier and will allow free passage of moisture. Follow the directions of the floor covering manufacturer regarding the maximum allowable substrate moisture content and test the substrate prior to installing SCHÖNOX AP RAPID PLUS. Where substrate moisture exceeds the maximum allowed then application of SCHÖNOX SDG PLUS,

SCHÖNOX MR 18 or SCHÖNOX EPA may be used to suppress residual moisture (see data sheet).

- Do not install where moisture vapor emission rate (MVER) exceeds 5 lbs. per 1,000 sq. ft. per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869) or when the relative humidity (RH) of the concrete slab exceeds 80% (ASTM F2170).
- Gypsum screeds should always be dry. Do not use moisture mitigation systems on gypsum substrates.
- 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.
- Old floors such as ceramic tiles should be thoroughly cleaned and abraded.
- Prior to install ceramic tiles we recommend to use SCHÖNOX US.
- The requirements of the relevant valid standards (such as ASTM 2873-13), guidelines and data sheets apply.

Priming

- **standard absorbent substrates such as:**
 - concrete, cement substrates prime with SCHÖNOX VD (1:3) or KH FIX
- **non-absorbent, smooth, sound substrates such as:**
 - ceramic tiles
 - old water-resistant adhesive residues, removed as far as possible
 - OSB board, plywood (well screwed down and/or bonded) prime with SCHÖNOX SHP
- **gypsum substrates (sanded and vacuumed)** prime with SCHÖNOX KH FIX

Mixing ratio

- mix each 55lb. bag with 4.2 l / 4.5 quarts of water
- We recommend to extend SCHÖNOX AP RAPID PLUS with dry, clean aggregate (aggregate is added last) at a layer thickness above 2": type and amount of aggregate used will affect product performance. As qualities of locally available aggregates vary, we recommend to perform tests prior

Technical data

- pot life: approx. 30 minutes at 68°F
- ready for foot traffic: approx. 2 - 3 hours
- ready for covering:
 - after 16 hours at 1/2" thickness
 - after 48 hours at 2" thickness
- working temperature: 41°F - 90°F
- coverage per unit:
 - approx. 14 sq.ft. at 1/2" (depending on substrate conditions and aggregate used)
- compressive strength (ASTM C109/mod - Air cure only):
 - 6300 psi / 40 N/mm² / 420 kg/cm² after 28 days
 - 3,800 psi / 26 N/mm² / 240 kg/cm² after 1 day
- flexural strength (ASTM C348):
 - approx. 10 N/mm² / 1500 psi after 28 days
- tensile strength (ASTM C1583):
 - approx. 2.5 N/mm² / 400 psi after 3 days
- initial Set (ASTM C191):
 - approx. 65 minutes at 70°F
- final Set (ASTM C191):
 - approx. 70 minutes at 70°F
- cured density: 119 lbs. / cu.ft.
- UL-classified in accordance with ASTM E84 (ANSI/UL 723):
 - Flame Spread 0; Smoke Development 0

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 AP RAPID PLUS

to use on a larger scale.

Do not overwater! Foam while mixing, or settling of the sand aggregate while placing, indicates overwatering.

Recommended method of working

- Using a clean mixing drum, add SCHÖNOX AP RAPID PLUS to cold, clean water 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. Then pour the mix and spread using a smoothing trowel. Even surfaces are easily achieved using a pin leveler. In higher thicknesses using a spike roller is recommended.
- Contact to vertical structures should be avoided by putting in SCHÖNOX FOAMTAPE.
- If a second layer of leveling compound (or a patching and smoothing compound such as SCHÖNOX SL) is to be applied, prime the first layer with SCHÖNOX KH FIX when walkable. The maximum layer thickness must not be exceeded in case of two layer applications. The second layer must not exceed the layer thickness of the first layer.
- Protect curing SCHÖNOX AP RAPID PLUS layers from high ambient temperatures, direct sunlight and draughts and ensure an adequate air circulation.
- Clean tools in water immediately.

Packaging

- 25kg / 55lb. net weight in paper bags

Storage

- Store in cool and dry conditions.
- Shelf life: 12 months unopened.
- End of shelf life does not generally indicate the end of the products suitability for the intended use. Always test in a small area.

Disposal

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

VOC Content

- 0g/l (calculated), SCAQMD 1113

LEED

May help contribute to LEED v4 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
- MRC3 - 1 point
Sourcing of Raw Materials
- MRC4 - 1 point
Material Ingredients

Environmental Product Declaration (EPD)

- Declaration number: EPD-DIV-2013311-EN

Instructions

- Do not use in areas of constant water exposure (such as interior swimming pools).
- 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

- SCHÖNOX AP RAPID PLUS contains sand aggregate. Avoid eye and skin contact. In case of contact, rinse immediately with plenty of water. In case of contact with eyes seek additional medical advice. Mix in a well ventilated area and avoid breathing powder or dust.
- Never mix with cement or additives other than SCHÖNOX approved products. Observe the basic rules of concrete work. Do not install below 41°F surface temperature. Install quickly if substrate is warm.

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.schonox.us, or by calling the 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.

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