

## Synthetic Gypsum Based Rapid Drying Smoothing and Patching Compound

suitable to provide a smooth finish on various substrates in interior areas. SCHÖNOX AST can be installed as a true featheredge.

### Product characteristics

- EMICODE EC 1: very low emission
- does not support mold growth
- for interior use only
- heavy duty
- featheredge achievable
- exceptional hardness and strength
- fast drying independent of the layer thickness
- suitable for underfloor heating systems
- layer thickness above featheredge up to 1/4"
- suitable for castor wheels loadings according to DIN EN 12529
- very smooth surface

### Applications

**SCHÖNOX AST is suitable for smoothing and leveling of:**

- concrete, cement substrates
- floor leveling compounds
- gypsum substrates
- old substrates such as ceramic tiles
- old, water-resistant adhesive residues
- wooden substrates

### 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 advise.
- 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 AST. Where substrate moisture exceeds the maximum allowed then application of SCHÖNOX SDG, SCHÖNOX MR 18 or SCHÖNOX EPA may be used to suppress residual moisture (see data sheet).
- Gypsum substrates should always be dry. Do not use moisture mitigation systems on gypsum substrates.
- Old water-soluble adhesives should be removed completely to the clean substrate, old water-resistant adhesives should be mechanically removed to a

thin, well-bonded residue (i.e. using the wet-scraping technique as recommended by the Resilient Floor Covering Institute). 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. Harmful dust may result. Inhalation of asbestos dust may cause asbestosis or other serious bodily harm. Please consult the adhesive manufacturer and all applicable government agencies for rules and regulations concerning the removal of flooring and adhesives that contain asbestos. Prime remaining adhesive residues accordingly.

- The use of trowelable patching compounds to mask the presence of adhesive residues can be used successfully, but only when the new adhesive to be used does not react with the old residue, and the floor covering to be installed will not be affected by adhesive bleed-through.
- All cement based or wooden substrates must be solid, thoroughly clean and free of oil, wax, grease, asphalt, latex and gypsum compounds, curing compounds, sealers and any contaminant that might act as a bond breaker. If necessary, mechanically clean the floor down to sound, solid surface.
- Solidly bonded non-porous substrates such as ceramic tile and terrazzo must be thoroughly cleaned and abraded including the complete removal of existing waxes and sealers, dust, dirt, debris and any other contaminant that may act as a bond breaker.
- SCHÖNOX AST can be applied over SCHÖNOX EPA without the need of priming. Apply SCHÖNOX AST after the moisture mitigation system has dried accordingly but within the first 72 hours after the moisture mitigation system was applied.
- The requirements of the relevant valid standards, guidelines and data sheets apply.
- Vacuum substrates thoroughly.

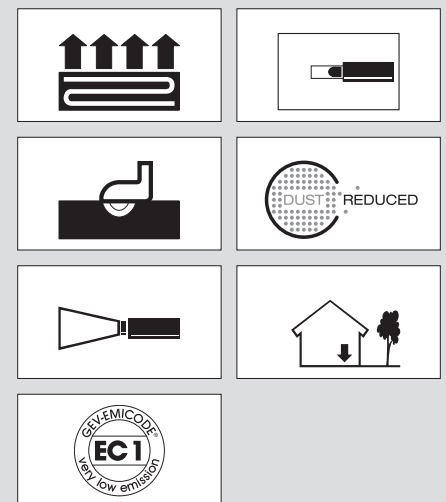
### Priming

- **gypsum substrates (sanded and vacuumed)**  
no priming required
- **cement substrates such as:**
  - concrete
  - prime with SCHÖNOX VD (1:3).
- **non porous substrates such as:**
  - ceramic tiles (thoroughly cleaned and abraded)
  - terrazzo

### Technical data

- pot life: approx 20 minutes at 68°F
- ready for foot traffic: after approx. 60 minutes
- ready for covering:
  - after approx. 30 minutes when applied as a true featheredge
  - after approx. 12 hours at 1/8" thickness
- working temperature: not below 41°F floor temperature
- coverage: approx. 75 sq.ft. (4.5 kg/10 lb.) / 240 sq.ft. (15 kg/33 lb.) per unit when applied as a featheredge
- compressive strength (ASTM C109/mod - days Air cure only):  
23 N/mm<sup>2</sup> / 3600 psi at 28 days
- flexural strength (ASTM C348):  
approx. 6 N/mm<sup>2</sup> / 1250 psi at 28 days
- flammability (ASTM E84):  
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.



- water-resistant, acrylic adhesive residues (removed as far as possible)  
no priming required.

■ **wooden substrates such as**

- OSB board, plywood (well screwed and/or bonded) as well as
  - old water-resistant, non acrylic adhesive residues (removed as far as possible)
- prime with SCHÖNOX VD (undiluted) or SCHÖNOX SHP.

**Mixing ratio**

- mix each 4.5 kg / 10 lb. bag with 1.1 liters / 1.2 quarts of water
- mix each 15 kg / 33 lb. bag with 3.8 liters / 4 quarts of water

**Recommended method of working**

- Using a clean mixing bucket, add SCHÖNOX AST to cold, clean water to form a homogeneous mixture. Mix thoroughly for approx. 3 minutes using a heavy-duty drill (min. 600 rpm) is recommended to obtain a lump-free mix. Or mix smaller volumes by hand to consistency. Apply, smooth and shape the leveling compound using a stainless steel smoother or a smoothing trowel.
- Do not mix more material than can be applied within 15 minutes.
- Protect curing SCHÖNOX AST layers from high ambient temperatures, direct sunlight and draughts.
- Clean tools in water immediately after use.

**Packaging**

- 4.5 kg / 10 lb. net weight in paper bags
- 15 kg / 33 lb. net weight in paper bags

**Storage**

- Store in cool and dry conditions.
- Shelf life: 12 months unopened.

**Disposal**

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

**Instructions**

- This product is intended for interior use over dry substrates only. Do not use in areas of constant water exposure or in areas exposed to permanent or intermittent substrate moisture as this may jeopardize the performance of the underlayment and the floor covering.
- 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 for primers.

**VOC Content**

- 0g/l (calculated), SCAQMD 1113

**LEED**

May help contribute to LEED certification of projects in the categories:

- EQc2  
Low-Emitting Materials – 1 to 3 points
- MR Credit 1.1  
Building Reuse-Maintain – Existing Walls, Floors and Roof up to 3 points
- MR Credit 1.2  
Building Reuse-Maintain – Existing Interior Nonstructural Elements 1 point
- MRc3  
Environmentally Preferable Products 0,5 to 5 points

**Environmental Product Declaration (EPD)**

- Declaration number: EPD-DIV-2013311-EN

**Precautions**

- SCHÖNOX AST contains gypsum. Avoid eye and skin contact. In case of contact, rinse immediately with plenty of water. In case of contact with eyes seek a d d i t i o n a l medical advice. Mix in a well ventilated area and avoid breathing powder or dust. KEEP OUT OF REACH OF CHILDREN. Carefully read and follow all cautions and warnings on product label. For complete safety information, please refer to the Material Safety Data Sheet, or visit our website at [www.schonox.us](http://www.schonox.us).
- 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.
- Low in chromate in accordance to REACH.

**Limitation of Liability**

To the best of our knowledge, the technical data contained herein are true and accurate at the date of issuance but are subject to change without prior notice. We guarantee our product to conform to the specifications contained herein. We make no other warranty or guarantee of any kind, express or implied, including merchantability and fitness for particular purpose. Liability, if any, is limited to replacement of the product or refund of the purchase price. Labor or cost of labor and other consequential damages are hereby excluded. SCHÖNOX does not authorize anyone, including SCHÖNOX Representatives, to make any statements which supersede, modify or supplement the information provided on its printed literature or package labels without written confirmation.

The applicable recommendations, guidelines, regulations and safety data sheets are to be observed, together with the recognized architectural and engineering regulations. We guarantee that our products leave the factory in perfect condition. While our recommendations for use are based on tests and practical experience, they can only provide general guidance without any assurance as to product characteristics, since we have no influence over the conditions on site, the execution of the work or the method of processing. This product data sheet supersedes all previous editions.



The SCHÖNOX management system is certified to ISO 9001 and 14001 by DQS.

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