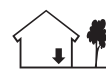




# SCHÖNOX AST

## 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
- low dust
- suitable for underfloor heating systems
- layer thickness above featheredge up to 1/4"
- suitable for castor wheels loadings
- 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 Technical Service 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 MR 18, SCHÖNOX EPA or SCHÖNOX EPA RAPID may be used to suppress residual moisture.
- 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 substrates 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.
- 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.
- Substrates such as epoxy or urethane based sealers/coatings are primed with SCHÖNOX SHP following the referring product data sheet prior to apply SCHÖNOX AST.
- The requirements of the relevant valid standards (such as ASTM F710-22), 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) or KH FIX.
  - **non porous substrates such as:**
    - ceramic tiles (thoroughly cleaned and abraded)
    - terrazzo
    - water-resistant adhesive residues (removed as far as possible)
- no priming required.

### Technical data

- pot life: approx 20 minutes
- 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 1/4"
- working temperature: 41°F - 90°F
- coverage per unit of 4.5kg/10lb.:
  - approx. 180 sq.ft. when applied as a true featheredge
  - approx. 33 sq.ft. at 1/8"
- coverage per unit of 15kg/33lb.:
  - approx. 594 sq.ft. when applied as a true featheredge
  - approx. 109 sq.ft. at 1/8"
- compressive strength (ASTM C109):  
23 N/mm<sup>2</sup> / 3600 psi after 28 days
- flexural strength (ASTM C348):  
approx. 6 N/mm<sup>2</sup> / 1250 psi after 28 days
- 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 AST

## ■ wooden substrates such as

- OSB board, plywood (well screwed and/or bonded)
- prime with SCHÖNOX SHP or SCHÖNOX FP.

## Mixing ratio

- mix each 4.5kg / 10lb. bag with 1.1 - 1.4 liters / 1.2 - 1.5 quarts of water
- mix each 15kg / 33lb. bag with 3.8 - 4.6 liters / 4 - 5 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) 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

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

## Storage

- Store in cool and dry conditions.
- Shelf life: 18 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-DBC-20220217-IBF1-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 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 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.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.

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