

EP2500 SELF-SMOOTHING FLOOR

PRODUCT DESCRIPTION

Arturo EP2500 self-smoothing floor is a solvent-free, coloured, 2-component, epoxy-based floor finish.

AREA OF APPLICATION***

It is suitable as a durable, seamless, coloured finish for cement and anhydrite bound subfloors, magnesite and tiling. Arturo EP2500 self-smoothing floor is especially suitable as a finish on floors that are exposed to medium and heavy loads, for example for:

- ▶ Industrial production facilities
- ▶ Food industry
- ▶ Workshops
- ▶ Production areas

In case of other subfloors please request a special advice.

PRODUCT FEATURES/BENEFITS

- ▶ Resistant to impacts, shock and abrasion.
- ▶ Seamless
- ▶ Impermeable to liquids
- ▶ Good resistance to chemicals
- ▶ Dust-free and easy to clean
- ▶ Self-smoothing
- ▶ Quick stability development

TEST/APPROVAL

- ▶ Abrasion resistance according to BCA
- ▶ Certificate of Compliance according to § 64 of the Foodstuffs and Animal Feed Code – LFGB as well as to the series of standards EN 1186, EN 13130 and CEN/TS 14234 Materials and Articles in Contact with Foodstuffs – Plastics.
- ▶ Resistance to chemicals:
Polymer Institut no. P 3581-1E
- ▶ Abrasion resistance:
Polymer Institut no. P 5587-2
- ▶ Classification and testing of the fire resistance according to BS EN 13501-1 within several Arturo flooring systems.



PRODUCT DATA

Packaging size	Set: A + B = 10 kg: A = 8,50 kg B = 1,50 kg
	Set: A + B = 25 kg: A = 21,25 kg B = 3,75 kg
Shelf life	From date of production: Component A: 6 months Component B: 12 months
Colour	See the colour chart for Arturo EP2500. Other colours available on request.



Classification of fire resistance



Impermeable



Low maintenance and maintenance friendly



No seams



Hard-wearing and good scratch resistance



Good resistance to chemicals



Food-safe

TECHNICAL DATA

Tensile strength (7d/21°C/60% r.h.)	50 - 70 MPa(N/mm ²)
Compressive strength (7d/21°C/60% r.h.)	80 - 90 MPa (N/mm ²)
Density	Approx. 1.60 kg/dm ³
Consumption	Layer thickness 1 mm: approx. 1.60 kg/m ² / mm.
	Layer thickness 2 mm: approx. 1.75 kg/m ² / mm (with sand)
	Layer thickness 3 mm: approx. 1.85 kg/m ² / mm (with sand)
Mixing ratio	85 part by weight comp. A 15 part by weight comp. B
Pot life	Approx. 30 minutes*
Dust-dry	After approx. 6 hours*
Ready for foot traffic	After approx. 16 hours*
Recoatable	In approx. 16 to max 24 hours*
Full mechanical resilience	After 3 days*
Chemically resistant	After 7 days*
Layer thickness	Approx. 1 - 3 mm
Frost resistance	Yes**
Solids content	100%
Viscosity (23°C)	Approx. 1950 - 2150 mPa·s
Shore-D (7d/21°C/60% r.h.)	Approx. 85
Pressure sensitivity	Long, heavy load may lead to pressure marks.
Abrasion resistance Taber (7d/21°C/60% r.h.)	Approx. 35 mg (CS-10/1000U/1000g)

SUBFLOOR

The subfloor must be firm, able to bear sufficient loads and have adequate grip. It must be free of grease, oil and non-adherent components. It must also be free of any layers or contaminants that could reduce the adhesion. (Compressive strength at least 25 MPa (N/mm²), average tensile strength >1.5 MPa (N/mm²), smallest single value > 1.0 MPa (N/mm²)).

Prior to work, the subfloor must be adequately dry:

- ▶ Cement screed subfloors ≤ 4 CM%
- ▶ Anhydrite: ≤ 0,3 CM%.
- ▶ Magnesite: ≤ 4 CM%.
- ▶ Concrete class > B35: ≤ 3 CM%.
- ▶ Concrete class < B35: ≤ 4 CM%.

For Sweden and the UK, below 75% r.h.

SUBFLOOR PREPARATION:

Remove non-adherent layers and contaminants by suitable mechanical means (e.g. shot blasting, milling or sanding). Then remove all dust using an industrial vacuum cleaner.

Larger repairs and the filling of gaps, holes and other unevenness must be carried out with Arturo EP1500 repair mortar or EP6200 scratch coat.

SYSTEM STRUCTURE

Primer:

Prime the surface with Arturo EP6500 construction resin

(see the technical information sheet for details about using this product).

Special case (rough / open subfloors): Arturo EP6200 scratch coat (see the technical information sheet for details about using this product).

The primer / scratch coat must cure to a tack-free state before carrying out further work.

Degree of filling:

Arturo EP2500 can be applied in different layer thicknesses:

- ▶ Layer thickness 1 - 2 mm: Use pure Arturo EP2500.
- ▶ Layer thickness 2 - 3 mm: Arturo EP2500 can be filled with up to 30% Arturo Sand 0.1 - 0.5 mm.
- ▶ Layer thickness 3 mm: Arturo EP2500 can be filled with up to 60% Arturo Sand 0.3 - 0.8 mm.

Surface appearance:

For a decorative surface, strew the still wet surface with silicon carbide, (coloured) quartz sand or Arturo Flakes.

Coatings/sealers:

EP7610/ EP3900 / EP3910 / PU7750 / PU7320

Important:

To achieve a good bonding of the mentioned coatings/sealers on Arturo EP2500, always sand the surface with a red or black pad prior to application of the above-mentioned floor coatings. This will improve the adhesion of these systems. For colors from the RAL 1000 and 2000 group always apply at least 2 mm layer thickness to be sure that the color coverage is sufficient.

PROCESSING CONDITIONS

Minimum subfloor temperature: + 10°C and + 3°C above the dew point.

Room/processing temperature:

- ▶ Min: + 15°C
- ▶ Max: + 30°C
- ▶ Optimum: + 20°C

In general, higher temperatures shorten the pot life, whilst lower temperatures prolong the curing.

Maximum relative humidity: 80%

Beware of: too much (cold) ventilation (draught) leads to surface defects.

Important:

The individual components must be acclimatised in the working area prior to use for at least 24 hours.

PROCESSING INSTRUCTIONS

Stir component A thoroughly. Add component B and mix for at least 2 minutes with an electrical mixer (speed ca. 300 – 400 rpm). Add the designed amount quartz sand after ca. 2 minutes if a higher layer thickness is requested. Then transfer to a clean bucket and mix thoroughly once again for 1 minute. Pour the mixture onto the subfloor and distribute with a flat trowel or a notched trowel to the desired layer thickness.

DIBT GUTACHTEN

DIBt Gutachten Nr. G-156-19-0007 for the assessment of compliance with the construction requirements with regard to health protection (ABG) according MVVTB 2019/1, attachment 8, when installing the flooring systems "Arturo EP"

SHELF LIFE

The two components must be acclimatised in the working area prior to use for at least 24 hours. Store under dry, cool and frost-free conditions in the original, sealed containers.

EU-REGULATION 2004/42

In accordance with EU Regulation 2004/42 the maximum permitted concentration of VOCs (product category IIA/j, type wb) is 500 g/l in the ready-to-use state (version 2010). The VOC content of Arturo EP2500 in the ready-to-use state is < 500 g/l VOC.

DATA SOURCES

All technical data, measurements, etc. given on this data sheet are based on laboratory tests. Due to circumstances beyond our control, actual data may deviate from the indicated values.

DISCLAIMER

The information on this product sheet concerning the processing and application of this product is based on our experience with the product under standard conditions and with correct product storage and use. In practice, differences between equipment, subfloor and working conditions mean that no guarantee for a specific work result nor any liability, arising out of any legal relationship whatsoever, can be inferred either from the information on this data sheet or from any verbal advice given, unless caused by intent or gross negligence on our part. In this case the user must demonstrate that he has promptly forwarded to us in writing all necessary information for proper and effective evaluation of the circumstances. Users must test the products to check whether they are suitable for the intended application. We reserve the right to amend the information on technical data sheets. The intellectual property rights of third parties must be heeded. The most recent technical data sheet always applies. This can be requested from us or downloaded from www.arturoflooring.com. Our general terms and conditions of sale and delivery also apply.

PROTECTION OF THE WORKPLACE AND ENVIRONMENT

Solvent-free. Non flammable. Comp. A: Contains epoxy resin/irritant. Comp. B: Contains amine hardener/corrosive. Both components: May cause irritations or burns to eyes, skin or respiratory system. May cause sensitisation by skin contact. After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Use barrier cream, protective gloves and safety-goggles. In liquid form, "hazardous to the environment", therefore do not allow into drains, water courses or landfill. Observe safety information on product label as well as safety data sheet. Once cured, has neutral odour and presents no physiological or ecological risk.

DISPOSAL

Where possible, collect product residues and re-use. Do not empty into drains, sewers or ground. Empty, scraped and drip-free containers are recyclable. Liquid residues as well as containers with liquid residues are special waste, those with mixed and cured residues are Construction Waste. Therefore collect waste material, mix both components, allow to harden, then dispose as Construction Waste.

* At 20°C, 65% relative humidity.

** Avoid large temperature fluctuations and differences, this can lead to a temperature shock which has a negative influence on the final result.

*** For recreation rooms systems with AgBB certification must be used.