

EP3400 FLOOR COATING

PRODUCT DESCRIPTION

Arturo EP3400 Floor Coating is a solvent-free, 2-component coloured, antistatic epoxy-based floor coating with glossy finish (2-C, EP)

AREA OF APPLICATION***

It is suitable as a durable and seamless coloured finish for cement and anhydrite bounded subfloors. Arturo EP3400 Floor Coating is especially suitable as a coating on floors that are exposed to light and medium loads, for example for:

- ▶ Storage areas
- ▶ Workshops
- ▶ Production areas

PRODUCT FEATURES/BENEFITS

- ▶ Glossy
- ▶ Antistatic
- ▶ Seamless
- ▶ Solvent-free and low odour
- ▶ Abrasion resistance
- ▶ Good resistance to chemicals
- ▶ Easy to apply
- ▶ Easy to clean

TEST/APPROVAL

- ▶ Testing on the abrasion resistance according to Taber.
- ▶ Testing on chemical resistance in accordance with DIN EN ISO 2812-3.



PRODUCT DATA

Packaging size	Set: A + B = 7.50 kg: A = 6.00 kg B = 1.50 kg
Shelf life	Approx. 6 months from the date of production.
Colour	Colours available on request. Deviating from RAL. The additives in the product influence the colouration.

TECHNICAL DATA

Density	1.60 kg/dm ³
Consumption	200 - 300 g/m ² per layer, depending on the subfloor
Mixing ratio	80.0 part by weight comp. A 20.0 part by weight comp. B
Pot life	Approx. 20 minutes*
Dust-dry	After approx. 8 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*
Frost resistance	Yes**
Solids content	100%
Adhesion strength	> 1,5 N/mm ² (depending on the adhesion strength of the substrate)
Resistance to earth	< 10 ¹⁰ Ω



Impermeable



Low maintenance and maintenance friendly



No seams



Hard-wearing and good scratch resistance



Good resistance to chemicals



Can be used for renovations

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 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.

Important:

Only use on mineral subfloors!

SUBFLOOR PREPARATION

Remove non-adherent layers and contaminants by suitable mechanical means (e.g. light shot blasting 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 UZIN NC 182 repair mortar.

SYSTEM STRUCTURE

Primer:

First layer: EP3400

Floor coating:

Second layer: EP3400

Important:

In some cases, two coating layers may not produce the desired optical result. With some colours (such as orange, yellow and red) we recommend an additional primer layer of Arturo EP3400 in colour RAL 7035.

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

Maximum relative humidity: 80%

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

These conditions must be observed while processing as well as curing.

PROCESSING INSTRUCTIONS

Stir component A thoroughly. Add component B and mix for at least 3 minutes with an electrical stirrer (speed ca. 300 – 400 rpm). Then transfer to a clean container and mix thoroughly once again for 1 minute. Apply along the edges with a brush and then roll with a roller. Apply a thin, closed and even layer of the mixture to the subfloor using a brush or lambskin roller (in 2 or a maximum of 3 working steps). Then roll the fresh layer with a 50-70 cm wide floor roller. Always work "wet in wet" and over not too large an area in order to avoid unevenness from reacted material. Avoid long waiting times during a working step to prevent such unevenness. Apply at least 2 layers of Arturo EP3400. When applying a further layer to already coated subfloors, it is vital that the existing cured layers are totally tack-free. For waiting times of over 24 hours, the existing layer must be roughened by suitable means (e.g. sanding). Then make the surface 100% dust-free by vacuuming and cleaning with damp cloths.

Colour and batch:

Small colour deviations are unavoidable due to raw materials. That is why we recommend products from the same batch to apply. The batch no. is named on the packaging.

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.

CLEANING

Use Arturo Cleaning Cloths from Uzin Utz Nederland bv for fresh contaminations.

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 EP3400 in the ready-to-use state is < 500 g/l.

DATA SOURCES

All technical data, measurements, etc. given on this data sheet are based on laboratory tests. Due to practical 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, subfloors 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. Not flammable. Comp. A: Contains epoxy resin/irritant. Comp. B: Contains amine hardener/corrosive. Both components: May cause irritations 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 allow dispersal into drains, sewers or ground. Empty, scraped and drip-free containers are recyclable. Containers with liquid residue, as well as the liquid product, are classed as Special Waste. Dried product residues are classed as Construction Waste. Therefore collect waste material, mix both components and 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.