Product Datasheet

EP3900 FLOOR COATING

PRODUCT DESCRIPTION

Arturo EP3900 Floorcoating is a 2-component, solvent-free, epoxy based, coloured floor coating with glossy finish (2-C, EP)

AREA OF APPLICATION***

Suitable as a durable, seamless, abrasion-resistant, coloured coating for cement, anhydrite and magnesite bound sub-floors. Arturo EP3900 Coating is especially suitable as a coating on floors that are exposed to light and medium loads, for example for:

- Storage areas
- Workshops
- Parking garages
- Shops

Arturo EP3900 Floor Coating is also suitable on the Arturo EP2500 Self-smoothing Floor for medium - heavy loads.

PRODUCT FEATURES/BENEFITS

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

PRODUCT DATA

Packaging size	Set: A + B = 1 kg: Set: A + B = 3,75 kg: A = 3,19 kg B = 0,56 kg Set: A + B = 7,50 kg: A = 6,38 kg B = 1,12 kg Set: A + B = 15,00 kg: A = 12,75 kg B = 2,25 kg Set: A + B = 25,00 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 colour chart for Arturo EP3900. Other colours available on request.

Slip-resistant option | Food-safe | Classification of fire resistance | Good resistance to chemicals | Low-emission | Universal use

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TECHNICAL DATA

Density	Approx. 1.76 kg/dm³
Consumption	200 - 300 g/m² per layer. Approx. 700-900 g/m² for OS 8 system depending on processing, subfloor and room conditions the consumption may change to ca. 700 – 900 g/m².
Mixing ratio	85.0 part by weight comp. A 15.0 part by weight comp. B
Pot life	Approx. 20 minutes*
Dust-dry	After approx. 6 hours*
Ready for foot traffic	After approx. 16 hours*
Recoatable	After approx. 16 hours to max. 24 hours.*
Full mechanical resilience	After 3 days*
Chemically resistant	After 7 days*
Layer thickness	Approx. 0,15 mm
Frost resistance	Yes**
Solids content	100%
Viscosity (23°C)	Approx. 1350 mPa·s
Adhesion strength	> 1,5 N/mm² (depending on the adhesion strength of the substrate)
Abrasion resistance Taber (7d/ 21°C/60% r.h.)	52 mg (CS-10/1000/1000)

TEST/APPROVAL

- Test according to AgBB within the Arturo EP3900 flooring system.
- Testing on the abrasion resistance according to Taber.
- Classification and testing of the fire resistance according to BS EN 13501-1 within an Arturo flooring system.
- Testing on chemical resistance in accordance with DIN EN ISO 2812-3.
- Anti-slip properties in accordance with DIN 51130 and BGR 181, test certificates R10, R11 and R12. Available on request.
- Part of the OS8-system in accordance to DAfStb.
- 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.
- Tested according to AgBB within several Arturo PU/EP-based flooring systems.(see paragraph “DIBt Gutachten”)

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:
First layer EP3900

Coating:
Second layer EP3900

Rough subfloors must be smoothed with a scratch coat (Arturo EP6200).

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. Provide adequate ventilation. BUT: Draughts must be avoided. This can lead to different degrees in gloss and problems in the surface.

PROCESSING INSTRUCTIONS

Stir component A thoroughly. Add component B and mix for at least 3 minutes with an electrical mixer (speed ca. 300 – 400 rpm). Then transfer to a clean bucket and mix thor-

oughly 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 at least 2 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 EP3900. 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.

With Arturo Ballotini:

Stir component A thoroughly. Add component B and mix for at least 2 minutes with an electrical mixer (speed ca. 300 – 400 rpm). Then transfer to a clean bucket and mix thoroughly once again for 1 minute. Then add 10% Arturo Ballotini 180 - 300 µm into the material and mix again. Apply a closed and even layer of the Arturo EP3900 Coating with a nylon roller. Then roll the fresh layer with a 50 cm nylon roller.

Note:

Depending on the coverage strength of the colour and/or state of the subfloor, it can be necessary to apply more layers for a good coverage.

Color and batch:

Low coloring deviations are unavoidable due to the raw material. We therefore recommend to apply products from the same batches to a floor. The batch number of the product is indicated on the packaging. Under UV and weathering influences, epoxy resins are generally not permanently color-stable. Arturo EP3900 Coating is liquid tight when applied in a minimum of two layers.

For a good opacity we recommend multiple layering (for colours like yellow, orange and red). If necessary the apply the first layer in a light shade of grey (e.g. RAL 7035). Furthermore light colours like white, yellow and orange are limited as final layer.

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.

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 EP3900 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.