Product Datasheet

EP3010 FLOOR AND WALL COATING

PRODUCT DESCRIPTION

Arturo EP3010 Floor and Wall Coating is a very low emission, coloured, waterborne, 2-component floor/wall coating based on epoxy with satin finish (2-C,EP)

AREA OF APPLICATION***

It is suitable as a very low emission, coloured, durable, seamless floor coating for cement- and anhydrite- bonded subfloors, magnesite, tiling and asphalt.

Arturo EP3010 Floor and Wall Coating is especially suitable on floors that are exposed to light and medium loads. For example for:

- Storage areas
- Production areas

PRODUCT FEATURES/BENEFITS

- Satin
- Open to diffusion
- Can be diluted with up to 10% water
- Durable
- Easy to clean
- Easy to apply
- Low odour
- Solvent-free
- Dust-binding
- Very low emissions
  - AgBB certified
  - EMICODE® EC1PLUS

TEST/APPROVAL

- Test according to AgBB within the Arturo EP3010 flooring system.
- Classification and testing of the fire resistance according to BS EN 13501-1 within an Arturo flooring systems.
- Testing of the water vapour permeability in accordance with DIN 53122 Part 1.
- Testing of the abrasion resistance (Taber).
- Anti-slip properties in accordance with DIN 51130 and BGR 181. Available on request.
- Testing on chemical resistance in accordance with DIN EN ISO 2812-3.
- Tested according to AgBB within several Arturo EP-based flooring systems.(see paragraph “DIBt Gutachten”)
- GEV-Emicode: EC1PLUS

PRODUCT DATA

Packaging size	Set: A + B = 5,00 kg: A = 4,20 kg. B = 0,80 kg. Set: A + B = 10,00 kg: A = 8,40 kg. B = 1,60 kg. Set: A + B = 20,00 kg: A =16,80 kg. B = 3,20 kg.
Shelf life	From date of production: Component A + B : 12 months
Colour	See the colour chart of Arturo EP3010. Other colours available on request.

Impermeable | Low maintenance and maintenance friendly | Can be used for renovations | No seams | Slip-resistant option | Open to diffusion | Classification of fire resistance | Good resistance to chemicals | Low-emission

Arturo | A brand of Uzin Utz
EN | Uzin Utz Nederland bv | Bouwstraat 18 | 7483 PA Haaksbergen | Telephone +31 53 5737373 | E-mail info@arturoflooring.com | Internet www.arturoflooring.com

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TECHNICAL DATA

Density	Approx. 1,50 kg/dm³ (undiluted) Approx. 1,44 kg/dm³ (diluted with 10% Wasser)
Consumption	Approx. 150 - 250 g/m², depends on structure of the subfloor
Mixing ratio	84,0 part by weight comp. A 16,0 part by weight comp. B
Pot life	After approx. 25 minutes*
Dust-dry	After approx. 2 hours*
Ready for foot traffic	After approx. 16 hours*
Recoatable	After approx. 16 hours*
Full mechanical resilience	After approx. 3 days*
Chemically resistant	After approx. 7 days*
Water durable	After approx. 7 days*
Water quantity	Floorcoating: first layer: 10%, second layer: 5% Wall coating: first layer: 2.5 - 5%, second layer: 2.5%
Layer thickness	
Frost resistance	No**.
Solids content	Approx. 69%
Viscosity (23°C)	575 mPa·s, diluted with 10% water.
Adhesion strength	> 1,5 N/mm² (depends on the adhesion strength of the subfloor)
Abrasion resistance Taber (7d/ 21°C/60% r.h.)	88,0 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 ≤ 5 CM%
- Anhydrite: ≤ 0,3 CM%.
- Concrete class > B35: ≤ 3 CM%.
- Concrete class < B35: ≤ 5 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 vacuum the surface using an industrial vacuum cleaner and clean using damp cloths in order to free the subfloor of all dust.

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

SYSTEM STRUCTURE

Usage as floorcoating:

Primer:

Arturo EP3010 Floor Coating with addition of 10% water.

Floor coating in 1-2 layers:

Install Arturo EP3010 Floor Coating with addition of 5% water.

Usage as wall coating:

Primer:

Arturo EP3010 Wall coating with addition of 2.5 - 5 % water. (depending on the roughness of the surface)

Wall coating in 1-2 layers:

Arturo EP3010 Wall coating with addition of 2.5 % water.

Arturo EP3010 Floor and Wall Coating can also be installed as a slip resistant version. **Attention: first add the slip resistant agent in the second layer of coating, then mix it well and only then add water**. Please check for more information the Arturo slip resistance. Attention: the consumption increases for littered systems up to approx. 700-1000 g/m².

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

Minimum relative humidity: 40%

Maximum relative humidity: 75%

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.

The processing of waterborne coating/sealers systems requires suitable ventilation and temperature. Draughts must be avoided. Too high humidity and draughts can adversely affect the curing, degree of gloss and the structure of the cured material.

PROCESSING INSTRUCTIONS

Stir component A thoroughly. Stir component B thoroughly. Add component B at component A 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, add 10% water.

Apply along the edges with a brush and then roll with a 10 cm nylon floor roller. Apply a thin, closed, uniform layer of the mixture to the subfloor using a 25 cm nylon floor roller (14 mm pile height).

When used as a floor coating, roll the surface again with a 50 cm wide nylon floor roller (pile height 14 mm).

Do not work too large an area.

When applying a further layer to an already coated subfloor, 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.

Attention:
The processing of waterborne sealer systems requires suitable ventilation and temperature. Draughts must be avoided. Too high humidity and draughts can adversely affect the curing, degree of gloss and the structure of the cured material. In general, higher temperatures and low humidity shorten the pot life, whilst lower temperatures and high prolong the curing.

Colour differences and batches:
In some cases, two coating layers may not produce the desired optical result. With some colours (such as white, orange, yellow and red) we recommend an additional primer layer of Arturo EP3010 in colour RAL 7035.

Small differences in the colour of different batches are unavoidable. Among other things, the layer thickness will influence this. We hence recommend using products with the same batch number on a floor. The batch number of a product is shown on the packaging. In general, the colour of an epoxy resin changes over time on exposure to UV light and weathering.

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 EP3010 in the ready-to-use state is < 500>

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 Polyamine-epoxy-resin-compound/corrosive. Comp. B: Contains epoxy resin/irritant.
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.