EP3950 SEALER

PRODUCT DESCRIPTION

Arturo EP3950 Sealer is a low viscosity, transparent, solvent-free, 175 - 750 µm thick, 2-component, epoxy-based industrial sealer.

AREA OF APPLICATION***

It is suitable as a durable, seamless, transparent sealer for cement bound subfloors and fully gritted EP coatings / self-smoothing floors.

Arturo EP3950 Sealer is especially suitable on industrial floors that are exposed to light and medium loads, for example for:

- Mineral subfloors
- EP floors with Arturo Flakes (in excess)
- Gritted self-smoothing floors
- Gritted EP coatings

PRODUCTFEATURES/BENEFITS

- Seamless
- Solvent-free and low odour
- Abrasion resistance
- Good resistance to chemicals
- Easy to apply
- Easy to clean
- Free of nonyl phenol

TEST/APPROVAL

- 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.
- Abrasion resistance in accordance with Taber.
- Classification and testing of the fire resistance in accordance with BS EN 13501-1 within an Arturo Flooring system.
- Anti-slip properties in accordance with DIN 51130 and BGR 181: R10 en R10. Available on request.
- Testing on chemical resistance in accordance with DIN EN ISO 2812-3.

PRODUCT DATA

Packaging size	Set: A + B = 10 kg: A = 6,50 kg B = 3,50 kg
Shelf life	Approx. 12 months from the date of production
Colour	Transparent

TECHNICAL DATA

Density	Approx. 1.08 kg/dm³
Consumption	200 - 300 g/m² per layer, depending on the subfloor
Mixing ratio	65.0 part by weight comp. A 35.0 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	In approx. 16 to max 24 hours*
Full mechanical resilience	After 3 days*
Chemically resistant	After 7 days*
Layer thickness	175 - 300 µm
Frost resistance	Yes**
Solids content	100%
Viscosity (23°C)	450 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.)	28,4 mg (CS10/1000U/1000g)

Slip-resistant option

Low maintenance and maintenance friendly

No seams

Food-safe

Good resistance to chemicals

Hard-wearing and good scratch resistance

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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 MPa (N/mm²)).

Prior to work, the subfloor must be adequately dry:

- Cement screed subfloors: < 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 suitable materials.

SYSTEM STRUCTURE

Primer:
First layer EP3950

Floor coating:
Second layer EP3950
On very absorbent subfloors a third layer of Arturo EP3950 may be necessary.

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 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. 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.

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.

After that mix 30% weight parts Arturo Ballotini 180-300 µm or 250 – 425 µm into the Arturo EP3950 Sealer. Mix thoroughly once again. Apply the material (200 gr/m2 + 30% weight parts Arturo Ballotini) as a scratch coat in small amounts on the floor using a flat trowel. After that roll the material with a structure roller (25 cm).

Batch:
Always use products from the same batch. The batch no. is named on the packaging.

Attention:
Too much rest material in the packaging can lead to smoke development and heating of the material due to the exothermic reaction. Therefore never leave more material than 100 gr in the packaging and set it on a saftey and goed ventilated place. If there is more restmaterial in it you need to add sand.

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 EP3950 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. Non flammable. Contains isocyanate. Irritating. Harmful if inhaled. May cause sensitisation by inhalation and skin contact. Provide good ventilation. Use barrier cream, protective gloves and safety-goggles. 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. Observe safety information on product label as well as safety data sheet. Once cured, has a 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, 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.