

EP1000 RESIN SCREED

PRODUCT DESCRIPTION

Arturo EP1000 Resin Screed is a 3-component, epoxy-based, low emission, coloured floor finish with mineral fillers.

AREA OF APPLICATION***

It is suitable as a durable, seamless, natural or coloured finish on cement bound subfloors and tiled floors.

Arturo EP1000 Resin Screed is especially suitable as a finish on floors that are exposed to medium and heavy loads and where high requirements are put on abrasion resistance, resistance to chemicals and hygiene, for example for:

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

PRODUCT FEATURES/BENEFITS

- ▶ Very high compressive strength
- ▶ Resistant to impacts, shock and abrasion
- ▶ Also suitable for creating skirting and upstands (wall connections, etc.)
- ▶ Can also be applied to sloping surfaces
- ▶ Low emission

TEST/APPROVAL

- ▶ Classification and testing of the fire resistance according to BS EN 13501-1 within an Arturo flooring system.
- ▶ Tested according to AgBB within several Arturo flooring systems.



PRODUCT DATA

	Set: A + B + C = 23.52 kg: A = 1.65 kg B = 0.87 kg C = 21.00 kg sand mixture
Packaging size	Set: A + B + C = 70.56 kg: A = 4.95 kg B = 2.61 kg C = 63.00 kg consist of 3 sacks of 21 kg sand mixture
Shelf life	Approx. 12 months from the date of production.
Colour	Natural and 10 other colours on request.

TECHNICAL SPECIFICATIONS

Tensile strength (7d/21°C/60% r.h.)	Approx. 35 MPa (N/mm ²)
Compressive strength (7d/21°C/60% r.h.)	Approx. 85 MPa (N/mm ²)
Density	2.06 kg/dm ³
Consumption	Approx. 2.00 kg/m ² /mm layer thickness
Mixing ratio	7 part by weight comp. A 3.7 part by weight comp. B 89.3 part by weight comp. C
Pot life	Approx. 30 minutes*
Dust-dry	After ca. 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	5 - 12 mm
Frost resistance	Yes**
Solids content	100%



No seams



Classification of fire resistance



Good resistance to chemicals



Hard-wearing and good scratch resistance



Universal use



Food-safe

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: ≤ 4CM%.

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.

Cement- and anhydrite based subfloors needs to be prepared with Arturo EP6500 Primer.

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 add this mixture to component C. Mix this using a pan mixer until homogeneous (at least 3 minutes). Distribute this mixture over the subfloor using a screed box, notched trowel or trowel. If necessary, level the surface of the mortar (sloping or horizontal) using an aluminium straight-edge. Then compress the surface, preferably manually with a trowel.

Attention:

Arturo EP1000 Resin Screed may show some changes in colour- and structure because of the instruction method; it is a hand made flooring system. That is why trowel marks may still be visible.

The quoted RAL colours are only an indicator and the final colour of the flooring systems may differ. We recommend to order a sample first.

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.

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. Comp. C: Contains quartz sand. When mixing wear a protective dust-mask.

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.