

Product description

Arturo EP1000 mortar floor is a 3-component, epoxy-based, solvent-free 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 mortar floor 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
- Also suitable for creating skirting and upstands (wall connections, etc.).

Optical appearance

Mottled

Product features

- Very high compressive strength
- Resistant to impacts, shock and abrasion
- Good resistance to chemicals
- Can also be applied to sloping surfaces

Test certificates

- Slip resistance:
BGIA no. 200722353/3210
BGIA no. 2007354/3210
- Certificate of compliance:
ISEGA no. 3598
ISEGA no. 13253 U 99
- Fire resistance:
Interface no. 09010062.CSV. 20.01.2009
- Abrasion resistance:
Polymer Institut no. P 5887-1 dated 15.12.2008

Product data

Colour	Natural and 10 other colours on request.
Packaging	<u>24 kg set (A+B+C)</u> A = 2.02 kg B = 0.98 kg C = 21.00 kg sand mixture <u>72 kg set (A+B+C)</u> A = 6.06 kg B = 2.94 kg C = 63.00 kg consist of 3 sacks a 21 kg sand mixture
Layer thickness	5 - 12 mm
Shelf-life/storage	Ca. 12 months if stored under frost-free conditions in the original packaging
Frost resistance of the cured final product	Yes (but avoid large temperature differences over short periods)

Technical data

Density of the mixed product	2.06 kg/dm ³
Mixing ratio	8.40 parts by weight comp. A 4.10 parts by weight comp. B 87.50 parts by weight comp. C
Solids content	100%
Consumption	Ca. 2.00 kg/m ² /mm layer thickness
Pot life	Ca. 30 minutes*
Hardening/curing	<u>Dust-dry</u> After ca. 6 hours* <u>Foot traffic</u> After ca. 16 hours* <u>Further layers/treatments</u> In ca. 16 to max 24 hours* <u>Mechanical loads</u> After 3 days* <u>Exposure to chemicals and water</u> After 7 days*

*at 20°C, 65% relative humidity

Abrasion resistance	AR 0.5
Flexural strength	30 - 32 MPa ** (N/mm ²)
Compressive strength	80 - 85 MPa ** (N/mm ²)
Fire classification	In accordance with DIN 4102: A2 In accordance with DIN EN 13501-1: A2fl-s1.
Resistance to chemicals	See the Chemical Resistance list

**after 28 days, 23°C

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.

Standard layer structure

Primer:

Prime the surface with Arturo EP6900 primer. Then lightly sand in the fresh layer (max. 1.0 kg/m²) with Arturo sand 0.3-0.8 mm. Finally remove any loose sand before undertaking any further work.

Please ask for special advice if you have a tiled floor.

Mortar layer:

Apply Arturo EP1000 mortar layer with a layer thickness between 5 and 12 mm (see: Processing instructions).

Liquid-impermeable sealer layer:

A single layer of Arturo EP7950 sealer gives the mortar floor a liquid-tight surface. Thereafter a further layer of Arturo PU7180 sealer or PU7320 sealer can be applied. For an anti-slip surface use Arturo PU7180 or Arturo PU7320 sealer with anti-slip powder.

Safety information:

The safety information on the label of this product must be heeded.

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

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

Maximum relative humidity: 80%

Important:

All components must be acclimatised in the working area prior to use for at least 24 hours.

Processing instructions for Arturo EP1000

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.

Cleaning tools

Clean tools and equipment immediately after use. Fully hardened material can only be removed by mechanical means.

Floor cleaning and care

Use neutral or slightly alkaline cleaning and care agents. For further information see the cleaning and care instructions of Johnson Diversey.

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, 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.

Health and safety at work

GISCODE RE 1 – solvent-free. Not flammable.

Comp. A: Contains epoxy resin / Xi: "irritant".

Comp. B: Contains amine hardener / C: "corrosive".

Both components: Risk of irritation and/or chemical burns to the eyes, respiratory organs and skin. Can cause hypersensitivity if contacted with the skin. If contacted with the skin, immediately wash the skin with a lot of water and soap. If contacted with the eyes, immediately flush the eyes with water and consult a doctor. Wear suitable protective gloves and safety glasses. "Harmful to the environment" in the liquid state, hence prevent discharge into drains, surface waters or onto soil. Heed, amongst other things, the following: The German Ordinance on Hazardous Substances and Technical Regulation 610 / risk statements / safety recommendations on the container label, safety data sheet, product group information and model instructions of the Association of the Construction Industry (BG Bau) for GISCODE RE 1, guidelines of BG Bau "Epoxy resins in the construction industry". Neutral odour and ecologically and physiologically harmless once completely dry. Hazard class of component C: None.

Disposal

Do not discharge into drains, surface waters or onto soil. Empty, scraped out and leak-free metal containers can be recycled [Interseroh]. Containers containing non-cured residues of product as well as all other non-cured product residues must be disposed of as hazardous waste. Containers containing cured residues of product can be disposed of as building site waste. For this reason, gather together product residues, mix the components, leave to harden and then dispose of as building site waste.

CE declaration

	
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EN 13813 SR–B2,0–AR0,5-IR4-B(fl)	
Synthetic resin screed	
Fire resistance:	B(fl)-s1
Release of corrosive substances:	SR
Water permeability:	NPD*
Abrasion resistance:	AR 0.5
Tensile strength: ≥	B 2.0
Impact resistance: ≥	IR 4
Sound insulation:	NPD*
Sound absorption:	NPD*
Heat insulation:	NPD*
Resistance to chemicals:	NPD*
*NPD = No Performance Determined	