

Product description

Arturo EP2480 is an electrically conducting, solvent-free, ca. 1.5 mm thick, epoxy-based floor finish.

Area of application

It is suitable as a durable, seamless, coloured finish for cement and anhydrite bound subfloors, magnesite and tiling.

Arturo EP2480 is especially suitable as a finish on floors that are exposed to light and medium loads, for example for:

- Rooms requiring electrically conducting floors
- Production areas
- Munitions depots
- Explosion-proof areas

In case of other subfloors please request a special advice.

Optical appearance

Glossy (slightly mottled due to the fibres in the material)

Product features

- Electrically conducting
- Dust-free and easy to clean
- Resistant to impacts, shocks and wear
- Impermeable to liquids
- Self-smoothing
- Seamless

Product data

Colour	RAL 5014, 7035, 7038 and 7047. Other colours available on request. The fibres in the product influence the colouration.
Packaging	<u>10 kg set</u> A = 8.40 kg B = 1.60 kg <u>25 kg set</u> A = 21.00 kg B = 4.00 kg
Layer thickness	1.00 - 2.00 mm Advice: 1.5 mm
Shelf-life/storage	Ca. 6 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	Ca. 1.65 kg/dm ³
Mixing ratio	84.0 parts by weight comp. A 16.0 parts by weight comp. B
Solids content	100%
Consumption	Ca. 2.50 kg/m ²
Pot life	Ca. 20 minutes*
Hardening/curing	<u>Dust-dry</u> After ca. 6 hours* <u>Foot traffic</u> After ca. 16 hours* <u>Further layers/treatments</u> After ca. 16 hours* <u>Mechanical loads</u> After 3 days* <u>Exposure to chemicals and water</u> After 7 days*
Abrasion resistance	31.4 mg
Viscosity	CA. 1700 mPa-s (23°C)

*at 20°C, 65% relative humidity

Flexural strength	50 - 70 MPa** (N/mm ²)
Compressive strength	80 - 90 MPa** (N/mm ²)
Shore-D hardness	Ca. 80-85
Resistance to chemicals	See the Chemical Resistance list
Resistance to earth	According to BS EN 1081, BS EN 61340-5-1 and BS EN 61340-4-1

**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%
- Magnetite: < 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.

System structure

The copper tape is then bonded to the Arturo EP6200 scratch coat. For areas < 40 m² ensure there are at least 2 connection points per room/area. For areas > 40 m², ensure there is at least one connection point for each 40 m² of surface. Ca. 1 m copper tape must be bonded on the floor per 40 m².

Conducting layer:

Apply a layer of Arturo EP6400 conducting primer (for processing instructions see the technical data sheet).

The Arturo EP6400 primer is suitable for foot traffic after ca. 8 hours. Prior to applying the top coat the electrical conductivity of this conducting primer layer should be tested.

Conducting top coat

Apply the conducting Arturo EP 2480 self-smoothing floor in a thickness of 1 to max. 2 mm. (Advice: 1.5 mm) Thereafter, the surface of the floor must be tested to check it has the required electrical conductivity.

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:

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

Processing instructions for Arturo EP2480

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. Pour the mixture onto the subfloor and distribute with a flat trowel or notched trowel (Wolff S4) to the desired layer thickness. After this ventilate the fresh layer cross-wise with a spiked roller.

Safety information:

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

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 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.

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 / conducting epoxy coating	
Conducting coating	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	