Product Datasheet

EP2580 HIGH BUILD

PRODUCT DESCRIPTION

Self-smoothing floor/-coating and scratchcoat for medium to heavy-duty floors, processable with a high percentage of sand (2-C, EP)

AREA OF APPLICATION***

Suitable as a durable, seamless, coloured finish for cement and anhydrite bound subfloors, magnesite and tiling. Arturo EP2580 High build smooth Coating/Self-smoothing Floor and Scratchcoat is especially suitable as a finish on floors that are exposed to medium and heavy loads, for example for:

- Industrial production facilities
- Food industry
- Workshops
- Production areas
- Storage areas
- Parking garages
- Shops

In case of other subfloors please request a special advice.

PRODUCT FEATURES/BENEFITS

- Resistant to impacts, shock and abrasion
- Seamless
- Glossy
- Universally applicable; as High build smooth Coating and Self-smoothing Floor and Scratchcoat with different consumptions possible
- Impermeable to liquids
- Good resistance to chemicals
- Dust-free and easy to clean
- Good self-smoothing properties
- Unfilled and (up to 60%) filled processable
- Easy to apply

PRODUCT DATA

Packaging size	Set: A + B = 10 kg: A = 8.00 kg B = 2.00 kg Set: A + B = 25 kg: A = 20.00 kg B = 5.00 kg
Shelf life	From date of production: Component A: 6 months Component B: 12 months
Colour	See the colour chart for Arturo EP2580. Other colours available on request.

Classification of fire resistance

Impermeable

Low maintenance and maintenance friendly

No seams

Hard-wearing and good scratch resistance

Good resistance to chemicals

Food-safe

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TECHNICAL DATA

Tensile strength (7d/21°C/60% r.h.)	50 MPa (N/mm²) unfilled 40 MPa (N/mm²) filled with 60% sand
Compressive strength (7d/21°C/60% r.h.)	80 MPa (N/mm²) unfilled 70 MPa (N/mm²) filled with 60% sand
Density	Approx. 1.44 kg/dm³
Consumption	As a High build smooth Coating: Approx. 600 - 700 g/m² As a High build Scratchcoat: Approx. 500 - 1.300 g/m² As a Self-smoothing Floor Unfilled: Approx. 1.44 kg/m²/mm Layer thickness 1 mm: Approx. 1.6 kg/m² (filled with 30% Sand) Layer thickness 2 mm: Approx. 3.5 kg/m² (filled with 60% sand)
Mixing ratio	80 part by weight comp. A 20 part by weight comp. B
Pot life	Approx. 25 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	Approx. 0.4 - 2 mm
Frost resistance	Yes**
Solids content	100%
Viscosity (23°C)	Approx. 1510 mPa·s
Shore-D (7d/21°C/60% r.h.)	Approx. 80
Abrasion resistance Taber (7d/21°C/60% r.h.)	Approx. 32 mg (CS10/1000U/1000g) Approx. 75 mg (CS17/1000U/1000g)

TEST/APPROVAL

- Abrasion resistance according to BCA.
- Anti-slip properties in accordance with DIN 51130 and DIN EN 16165. Available on request.
- 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.
- Testing on chemical resistance in accordance with DIN EN ISO 2812-3.
- Classification and testing of the fire resistance according to BS EN 13501-1 within several Arturo flooring systems.

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 or EP scratch coat.

SYSTEM STRUCTURE

Primer/Scratch Coat (depending on the surface):

- Arturo EP Primer
- Arturo EP2580 Scratch Coat: ca. 500 – 1.300 g/m²

Degree of filling:

Arturo EP2580 can be applied in different layer thicknesses:

- Layer thickness as High build smooth Coating (approx. 0.4 mm): approx. 600 - 700 g/m² unfilled.
- Layer thickness 1 mm: 1.6 kg/m² (on a 25 kg-set of EP2580, fill 30% with Arturo Sand 0.1 - 0.3 mm (=7.5 kg sand)).
- Layer thickness 2 mm: 3.5 kg/m² (on a 25 kg-set of EP2580, fill 60% with Arturo Sand 0.1 - 0.3 mm (=15 kg sand)).

Surface appearance:

For a decorative surface, strew the still wet surface with silicon carbide, (coloured) quartz sand or Arturo Flakes.

Coatings/sealers:

For a matt look, transparent finish or a slip-resistance surface.

Important:

To achieve a good bonding of the mentioned coatings/sealers on Arturo EP2580, always sand the surface with a red or black pad prior to application of the above-mentioned floor coatings. This will improve the adhesion of these systems. For colours from the RAL 1000 and 2000 group always apply at least 2 mm layer thickness to be sure that the color coverage is sufficient.

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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°

Maximum relative humidity: 80%

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

Beware of: too much (cold) ventilation (draught) leads to surface defects.

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

PROCESSING INSTRUCTIONS

Stir component A mechanically. Add component B (empty/ scrape off the B component thoroughly) and mix with an electrix mixer (approx. 300 - 400 rpm) for at least 2 minutes. Mix until the mass is homogeneous. Then pour into a clean bucket and mix again.

As a High build smooth Coating (approx. 600 - 700 g/m²):
Use Arturo EP2580, unfilled.

As a High build Scratchcoat (approx. 500 - 1.300 g/m²):
Use Arturo EP2580, filled.

As a Self-smoothing Floor:
For the mixed 25 kg Arturo EP2580 High build smooth Coating/Self-smoothing Floor add 7,5 kg Arturo Sand 0.1 - 0.3 mm.
1 mm layer thickness:
Mixing time 1 minute.

2 mm layer thickness:
For the mixed 25 kg Arturo EP2580 High build smooth Coating/Self-smoothing Floor add 15 kg Arturo Sand 0.1 - 0.3 mm.
Mixing time 1 minute.

Application of High build smooth Coating:
Apply the mixture to the prepared subfloor and apply with a notched rubber strip and/or adhesive spatula in the desired layer thickness. Then roll the fresh layer with a 50 cm nylon roller.

Application of High build Scratchcoat:

Apply a closed, even layer of the mixture to the subfloor using a trowel with a cross-wise scraping motion. Then sand in with an excess of Arturo sand 0.1 - 0.3 mm.

After hardening remove all excess sand.

Application of High build Self-smoothing Floor:
Apply the mixture to the prepared subfloor and apply with a smoothing trowel, adhesive spatula or pin rake in the desired layer thickness.

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 contamintions.

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 EP2580 in the ready-to-use state is < 500 g/l VOC.

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. May damage fertility. Restricted to professional

users. 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.

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.