Product Datasheet

PU2030 SELF-SMOOTHING FLOOR

PRODUCT DESCRIPTION

Arturo PU2030 Self-smoothing floor is a solvent-free, high UV stable, 2-component, polyurethane-based floor finish.

AREA OF APPLICATION***

It is suitable as an aesthetic, decorative, seamless and coloured finish on cement and anhydrite bound subfloors. Arturo PU2030 self-smoothing floor is ideal for floors that are exposed to light loads, for example for:

- Schools / kindergarten
- Balconies, terraces
- Homes
- Common rooms
- Offices
- Therapy rooms

PRODUCT FEATURES/BENEFITS

- Permanently elastic
- Seamless
- High UV stability
- Crack bridging
- Cradle to Cradle Certified® Bronze
- Impermeable to liquids
- Solvent-free
- Self-smoothing
- Decorative
- Absorbs foot noise

TEST/APPROVAL

- Classification and testing of the fire resistance according to BS EN 13501-1 within several Arturo flooring systems.
- Tested according to AgBB within several Arturo PU-based flooring systems. Fitted with DIBt Gutachten (see paragraph “DIBt Gutachten”).
- Abrasion resistance AR 0.5 (DIN EN 13892-4)
- Cradle to Cradle Certified® Bronze

PRODUCT DATA

Packaging size	Set: A + B = 1 kg: A = 0.80 kg B = 0.20 kg Set: A + B = 5 kg: A = 4,00 kg B = 1.00 kg Set: A + B = 10 kg: A = 4,00 kg B = 2.00 kg Set: A + B = 25 kg: A = 20,00 kg B = 5.00
Shelf life	From date of production: Component A: 6 months Component B: 12 months
Colour	See the colour chart of Arturo PU2030 Self-smoothing floor. Other colours available on request

High walking comfort · Flexible · Impermeable · UV-stable · Classification of fire resistance · Low-emission

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PU2030 SELF-SMOOTHING FLOOR

TECHNICAL DATA

Density	1,56 kg/dm³
Consumption	Approx. 1,56 kg/m²/mm layer thickness
Mixing ratio	80,0 part by weight comp. A 20,0 part by weight comp. B
Pot life	Approx. 30 minutes*
Dust-dry	After approx. 4 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. 2 mm
Frost resistance	Yes**.
Solids content	100%
Viscosity (23°C)	Approx. 3000 – 3300 mPa·s
Shore-D (7d/21°C/60% r.h.)	Approx. 30
Yield point	Approx. 70%
Tensile strength	approx. 5 N/mm²
Young's Modulus	approx. 6 N/mm²

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
- Anhydrite: < 0% CM
- Magnesite: < 4% CM
- Concrete class > B35: < 3% CM
- Concrete class < B35: < 4% CM

For Sweden and the UK, below 75% r.h.

Attention:

Wood subfloors are not dimensionally stable. Signatures from the subfloor may still remain visible.
Furthermore signatures can also occur with a bad prepared subfloor.

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:

Prime the surface with Arturo EP Primer. Special case (rough / open subfloors): Arturo EP scratch coat. The primer / scratch coat must cure to a tack-free state before carrying out further work.

Self-smoothing floor:

Apply Arturo PU2030 self-smoothing floor in a layer thickness of 2 mm.

Surface appearance:

For a decorative surface, strew the still wet surface with Arturo Flakes.

Coatings/sealers:

Arturo PU7750 / PU7320 / PU7310 / PU7180 There are many possible applications. Arturo PU7320 is just allowed in combination with a first layer of PU7750.

For special system structures contact our Technical Support team.

PROCESSING CONDITIONS

Minimum temperature of the subfloor: + 10°C and + 3°C above the dew point. Room/processing temperature:

Min: + 18°C

Max: + 25°C

Optimum: + 20°C

Minimum relative humidity: 40%
Maximum relative humidity: 75%

These conditions must be observed while processing as well as curing.

(In general, higher temperatures shorten the pot life, whilst lower temperatures prolong the 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 the mixture to a clean bucket and mix again for 1 minute. Pour the mixture onto the subfloor and distribute with a flat trowel to the desired layer thickness. To prevent colour variations on the floor, do not wait longer than 10 minutes before applying the next bucket against the material that is already on the floor.

Colour and batch

Small colour deviations are unavoidable due to raw materials. That is why we recommend products from the same batch to apply. The batch no. is named on the packaging. Colour deviations regard to the 1 kg and the 5 kg sets are possible.

For light colours it's important to apply the floor in 2 mm layer thickness for a good opacity. Colour changes and yellowing are possible under UV- and atmospheric factors.

Tips for castors on chairs (BS EN 12529)

For long-term protection of the sealer, chairs should have

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type W castors. We also recommend using transparent polycarbonate protective mats for chairs

Impression sensitivity

Prolonged heavy static loads can lead to impressions / indentations.

DIBT GUTACHTEN

DIBt Gutachten Nr. G-156-19-0005 for the assessment of compliance with the construction requirements with regard to health protection (ABG) according MVVTB 2019/1, attachement 8, when installing the flooring systems "Arturo PU".

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. For more information see the Arturo cleaning recommendations.

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 PU2030 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 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, 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 Reaction mass of sebacates. May cause an allergic skin reaction. Comp. B: 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.

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.

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