Product Datasheet

PU2035 SELF-SMOOTHING FLOOR

PRODUCT DESCRIPTION

Arturo PU2035 Self-smoothing Floor is a solvent-free, 2-component, aromatic polyurethane-based floor finish. Arturo PU2035 Self-smoothing Floor is tested according to AgBB and is ideally suited for interior use.

AREA OF APPLICATION***

It is suitable as a coloured, durable and seamless finish for cement and anhydrite bound subfloors. Arturo PU2035 is especially suitable as a finish on floors that are exposed to light loads, for example for:

- Museums and showrooms
- Offices
- Schools / Kindergartens
- Shops
- Private homes

PRODUCT FEATURES/BENEFITS

- Seamless
- Easy to clean
- Impermeable to liquids
- Permanently elastic
- Self-smoothing
- Crack bridging
- Increase walking comfort
- Emicode EC1 PLUS

TEST/APPROVAL

- Tested according to AgBB within several Arturo PU-based flooring systems. Fitted with DIBt Gutachten (see paragraph “DIBt Gutachten”).
- Classification and testing of the fire resistance according to BS EN 13501-1 within several Arturo flooring systems.
- Tested on the static crack bridging according to DIN EN 1062-7.
- Emicode EC1 PLUS very low emission

PRODUCT DATA

Packaging size	Set: A + B = 1 kg: A = 0,86 kg B = 0,14 kg Set: A + B = 10 kg: A = 8,60 kg B = 1,40 kg Set: A + B = 25 kg: A = 21,50 kg B = 3,50 kg
Shelf life	From date of production: Component A: 6 months Component B: 12 months
Colour	See the colour chart for Arturo PU2035 NEW. Other colours available on request.

TECHNICAL DATA

Tensile strength (7d/21°C/60% r.h.)	approx. 8 N/mm²
Density	1.57 kg/dm³
Consumption	Approx. 1.57 kg/m²/mm layer thickness
Mixing ratio	86.0 part by weight comp. A 14.0 part by weight comp. B
Pot life	Approx. 30 minutes*
Dust-dry	After approx. 8 hours*
Ready for foot traffic	After approx. 18 hours*
Recoatable	In approx. 18 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)	1800 mPa.s
Shore-D (7d/21°C/60% r.h.)	Approx. 30
Yield point	Approx 75%
Young Modulus	approx. 13 N/mm²

GEV-EMICODE EC 1 PLUS very low emission

Flexible

Classification of fire resistance

High walking comfort

Low-emission

No seams

Compatible with underfloor heating

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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 PU2035 Self-smoothing Floor in a layer thickness of 2 - 3 mm.

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

Coloured Sealer, UV-stable:
Arturo PU3320 Sealer (2-C, PU)

Transparent Sealer, satin:
Arturo PU7750 Sealer (2-C, PU)
Arturo PU7320 Sealer (2-C, PU)

Transparent Sealer, extra matt:
Arturo PU7750 Sealer (2-C, PU)

Transparent Sealer, glossy:
Arturo PU7180 Sealer (2-C, PU)

PROCESSING CONDITIONS

Minimum temperature of the subfloor: + 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%.

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 or notched trowel to the desired layer thickness.

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 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 acclimatized 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. Comp. B must be stored at a temperature of min. 10°C. Colour changes are possible under UV- and atmospheric factors.

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 PU2035 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: Requires no special protection or precautions in general use. 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.