Product Datasheet

PU3320 SEALER

PRODUCT DESCRIPTION

Arturo PU3320 Coating is a coloured, waterborne, 2-component floor coating based on polyurethane resin with satin finish. (2-C, PU)

AREA OF APPLICATION***

Suitable as a coloured, satin, durable and UV-stable coating for floors that are exposed for light-duty usage. Arturo PU3320 Coating is particularly suitable as a finish for the following Arturo floors:

- Arturo PU2030 Self-smoothing Floor
- Arturo PU2035 Self-smoothing Floor
- Arturo PU2050 Self-smoothing Floor
- Arturo PU2060 Self-smoothing Floor
- Arturo EP2500 Self-smoothing Floor
- Arturo EP3010 Floor Coating
- Arturo EP3900 Floor Coating

For application on other surfaces, request special advice.

PRODUCT FEATURES/BENEFITS

- Satin
- High UV stability
- Easy to process
- Good resistance to abrasion and scratching
- Good resistance to chemicals
- Water borne
- Very easy to clean

TEST/APPROVAL

- Tested according to AgBB within several Arturo PU-based flooring systems.
- Anti-slip properties in accordance with DIN 51130 and BGR 181, Test certificate R10. Available on request.
- Classification and testing of the fire resistance according to BS EN 13501-1 within several Arturo flooring systems.
- Testing of the chemical resistance in accordance with DIN EN ISO 2812-3 (media groups 5/9/10/14) and other test fluids
- Tested according to AgBB within several Arturo PU/EP-based flooring systems.(see paragraph “DIBt Gutachten”)



PRODUCT DATA

Packaging size	Set: A + B = 6,65 kg: A = 5,65 kg B = 1 kg
Shelf life	Approx. 6 months from the date of production.
Colour	See the colour chart for Arturo PU3320. Other colours available on request.

TECHNICAL DATA

Density	Approx. 1.07 kg/dm³
Consumption	Approx. 100 - 120 g/m² per layer depending on the structure of the subfloor.
Mixing ratio	85 part by weight comp. A 15 part by weight comp. B
Pot life	Approx. 40 minutes*
Dust-dry	After approx. 90 minutes*
Ready for foot traffic	After approx. 16 hours*
Recoatable	Within 16 - 24 hours (after 24 hours the surface must be sanded and then all dust removed)*.
Full mechanical resilience	After 3 days*
Chemically resistant	After 7 days*
Water quantity	5% water addition (at temperatures of ± 23 degrees and rel. humidity under ± 50%)
Layer thickness	Approx. 42 µm per layer
Frost resistance	No
Solids content	42%
Viscosity (23°C)	Approx. 266 mPa·s
Abrasion resistance Taber (7d/ 21°C/60% r.h.)	52 mg (CS-10/1000U/1000g).

Slip-resistant option | Classification of fire resistance | Food-safe | Good resistance to chemicals | UV-stable | Impermeable | No seams | Hard-wearing and good scratch resistance | Low-emi

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SUBFLOOR

The Arturo resin floor 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.

SUBFLOOR PREPARATION

The floor surface or Arturo floor must be fully cured (tack-free) and suitable for foot traffic. A Arturo floor must be acclimatised at room temperature for ca. 24 hours before the sealer can be applied. For application after 24 hours we recommend, for optimal adhesion, lightly roughening the surface with a red pad or with a sanding disc (180 grit). Then remove all dust from the surface.
Prior to application on epoxy resin coatings it is necessary to first roughen the surface with a black pad or with a sanding disc (180 grit).

PROCESSING CONDITIONS

Minimum temperature of the substrate: + 10°C and + 3°C above the dew point. Protect from condensation.

Room/processing temperature:

- Min: + 15°C
- Max: + 25°C
- Optimum: + 20°C

Minimum relative humidity: 45%
Maximum relative humidity: 75%

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

The processing of waterborne coating/sealers systems requires suitable ventilation and temperature. Draughts must be avoided. Too high humidity and draughts can adversely affect the curing, degree of gloss and the structure of the cured material.

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

PROCESSING INSTRUCTIONS

Stir component A thoroughly. Add component B and immediately mix for at least 2 minutes with an electrical mixer (speed ca. 300 – 400 rpm). Then transfer the mixture to a clean container by passing the mixed material through a sieve. Then mix the material once again. For processing we recommend using a bucket with wipe-off grid. Allow the mixture to rest (age) after mixing for about 10 minutes.

Always apply 2 layers of floor coating, using transparent Arturo sealer for the second layer. Apply to the floor edges using a brush (only apply a few metres in order to avoid drying at the edges) and then immediately roll with a 10 cm wide nylon roller (14 mm pile height). Apply the material thinly and evenly with a saturated 25 cm wide nylon roller (14 mm pile height) working cross-wise to get a closed layer (100 – 120 g/m²) over the whole surface. Within 10 minutes roll the surface again, using a 50 cm wide nylon roller (14 mm pile height) lightly wetted with material, in only one direction and without applying pressure. Roll cross-wise to the already applied material. For an optimal result the application and rolling should be carried out in one working step, wearing blunt spiked shoes to walk on the freshly applied coating. For larger areas we recommend that at least 2 persons apply the coating. If the work is interrupted, drying of the coating can cause unsightly roller marks and lines. Regularly change the nylon roller and after an interruption to the work always use a new roller. After 16-24 hours apply the second layer, using an Arturo sealer.

Anti-slip variants:

The anti-slip variant of Arturo PU3320 must always be applied in two layers, with ant-slip particles added to the first layer. The second layer is applied without anti-slip particles.

Stir component A thoroughly. Add component B and immediately mix for at least 2 minutes with an electrical mixer (speed ca. 300 – 400 rpm). Then add the supplied anti-slip particles and mix thoroughly again with a mixer that is also able to mix the material at the bottom of the container (mixing time ca. 2 minutes). Then transfer all the mixture to a clean container and mix again thoroughly for a short time. For processing we recommend using a bucket with wipe-off grid. Allow the mixture to rest (age) after mixing for about 10 minutes. The anti-slip particles can be ordered separately. Generally, one container of PU3320 anti-slip particles is added to one 6.65 kg container of floor coating. The processing procedure is the same as for applying the coating without anti-slip particles. After 16-24 hours apply the second layer in exactly the same way as the first layer, but without addition of anti-slip particles.

Attention:

The processing of waterborne sealer systems requires suitable ventilation and temperature. Draughts must be avoided. Too high humidity and draughts can adversely affect the curing, degree of gloss and the structure of the cured material. In general, higher temperatures and low humidity shorten the pot life, whilst lower temperatures and high prolong the curing.

At high ambient temperatures (of ± 23 degrees) and low rel. humidity (under ± 50%) add 5% water.

Colour differences and batches:

Small differences in the colour of different batches are unavoidable. We hence recommend using products with the same batch for coating a floor. The batch number of a product is shown on the packaging.

Regarding light colours in the RAL categories 1000, 2000 and 3000, at least two layers of floor coating must be applied to guarantee adequate colour coverage.

Arturo PU3320 is not resistant to plasticisers

Abrasive stress can lead to scratching of the coating. We hence recommend specifying clean walking zones to minimise sand and dirt ingress.

Tips for castors on chairs (BS EN 12529):

For long-term protection of the coating, chairs should have type W castors. We also recommend using transparent polycarbonate protective mats for chairs.

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DIBT GUTACHTEN

DIBt Gutachten Nr. G-156-19-0005/ 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 PU/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 contaminations.

EU-REGULATION 2004/42

In accordance with EU Regulation 2004/42 the maximum permitted concentration of VOCs (product category IIA/j, type wb) is 140 g/l in the ready-to-use state (version 2010). The VOC content of Arturo PU3320 in the ready-to-use state is <140 g>

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, 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.

PROTECTION OF THE WORKPLACE AND ENVIRONMENT

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.

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* 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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