

PU7900 FLOOR COATING

PRODUCT DESCRIPTION

Arturo PU7900 Floor Coating is a coloured, 1-component, solvent-free, UV-stable floor coating based on polyurethane resin with satin gloss finish (2-C, PU)

AREA OF APPLICATION***

It is suitable as a coloured, matt, very durable floor coating with low discolouration for, for example, Arturo Self-levelling Floors and Floor Coatings. Arturo PU7900 Floor Coating is particularly suitable as a finish for:

- ▶ Arturo PU2060 Self-smoothing Floor
- ▶ Arturo PU2030 Self-smoothing Floor
- ▶ Arturo PU2035 Self-smoothing Floor

PRODUCT FEATURES/BENEFITS

- ▶ Satin gloss
- ▶ Solvent-free
- ▶ High abrasion resistance
- ▶ Dust-free and easy to clean
- ▶ Good resistance to chemicals

TEST/APPROVAL

- ▶ Testing on the abrasion resistance according to Taber.
- ▶ Testing on chemical resistance in accordance with DIN EN ISO 2812-3.
- ▶ Anti-slip properties in accordance with DIN 51130 and BGR 18: R10. Available on request.



PRODUCT DATA

Packaging size	Can: 5 kg
Shelf life	Approx. 6 months from the date of production.
Colour	Colours available on request

TECHNICAL DATA

Density	Approx. 1.28 kg/dm ³
Consumption	Max. 120 g/m ² per layer, depending on the subfloor
Pot life	Once containers have been opened, use the material up
Dust-dry	After approx. 16 hours*
Ready for foot traffic	After approx. 16 hours*
Recoatable	In max. 24 hours* (for over 24 hours the surface must be sanded and then all dust removed).
Full mechanical resilience	After 3 days*
Chemically resistant	After 7 days*
Layer thickness	Approx. 100 µm
Frost resistance	Yes**
Solids content	100%



Good resistance to chemicals



UV-stable



Hard-wearing and good scratch resistance



Slip-resistant option



Impermeable



Low maintenance and maintenance friendly



No seams

SUBFLOOR

The subfloor must be firm and able to bear sufficient loads. 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.

SUBFLOOR PREPARATION

The floor surface or Arturo coatings and/or self-levellings must be fully cured (tack-free) and suitable for foot traffic. If you have doubts about whether Arturo PU7900 floor coating will adhere to the surface, do a trial on a small area. The coatings and/or self-levellings must be sealed within 24 hours. For optimum adhesion we always recommend that you lightly sand the surface. This is essential in situations where further work cannot be undertaken within 24 hours.

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

Minimum relative humidity: 40%

Maximum relative humidity: 80%

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

Before use, thoroughly mix the material in the packaging (mixing time ½ minute). Transfer all the material to a clean bucket and mix thoroughly again (in order to guarantee a homogeneous mixture if material from several containers is being used). Mixing time ca. ½ minute. Apply to the floor edges using a brush and immediately roll with a 10 cm wide nylon roller (14 mm pile height). Then apply a thin, even layer of the material to the rest of the surface using a 25 cm wide nylon roller (14 mm pile height). Ensure a closed layer is formed (max. 120 g/m²). Then roll again with a 50 to 70 cm wide floor roller. Connections must be made within 20 minutes to prevent possible differences in color and gloss. Regularly change the roller and after an interruption to the work always use a new roller. If rollers other than those indicated are used, there may be optical impairment of the final result. Important information: Opened containers

must not be exposed to unnecessary air (humidity) otherwise there may be partial reaction of the product. Use material in opened containers as quickly as possible. Do not keep residues in containers. Always use the same batch of product (same batch number) for a particular surface.

Note

Depending on the coverage strength of the colour and/or state of the subfloor, it can be necessary to apply more layers for a good coverage.

Important

Apply the Arturo PU7900 Sealer with a maximum of 100 gr/m² on the floor. A difference in layer thickness is directly visible. Pay attention to climatic conditions while curing. Following circumstances must be excluded.

- ▶ draft along doors and windows
- ▶ draft by air-conditioner
- ▶ strong rise or strong drop of the relative humidity

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.

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 PU7900 is not resistant to plasticisers.

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

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 500 g/l in the ready-to-use state (version 2010). The VOC content of Arturo PU7900 in the ready-to-use state is < 500 g/l.

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

Solvent-free. Non flammable. Contains isocyanate. Irritating. Toxic 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. 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. Once cured, has a neutral odour and presents no physiological or ecological risk.

DISPOSAL

Where possible, collect product residues and re-use. Do not allow dispersal into drains, sewers or ground. Empty, scraped and drip-free containers are recyclable. Containers with liquid residue, as well as the liquid product, are classed

as Special Waste. Dried product residues are classed as Construction Waste. Therefore collect waste material, mix both components and 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.