PAS3790 FLOOR COATING

PRODUCT DESCRIPTION

Arturo PAS3790 Floor Coating is a fast hardening, UV-stable, solvent-free, coloured floor coating for inside and outside use with glossy finish (2-C, PAS)

AREA OF APPLICATION***

It is suitable for interior and exterior use as a durable, seamless coating for cement and gypsum based subfloors. Arturo PAS3790 Floor Coating is especially suitable as a coating on floors that are exposed to light and medium loads, for example for:

- Balconies/loggias
- Storage areas
- Private garages
- Arcades
- Stairways

Arturo PAS3790 Floor Coating can also be provided with an anti-slip finish. Please enquire about the different anti-slip classes that are available.

PRODUCTFEATURES/BENEFITS

- Glossy
- Seamless
- Impermeable to liquids
- Easy to clean
- Solvent-free and low odour
- High abrasion resistance
- Good resistance to chemicals
- Free of nonylphenol
- Fast-drying
- High UV stability

TEST/APPROVAL

- Testing on the abrasion resistance according to Taber.
- Anti-slip properties in accordance with DIN 51130 and BGR 181, anti-slip tests: R10 and R11.
- Chemical resistance in accordance with EN 13529:2003 (media groups 1, 2, 3, 4, 8, 9, 10, 11, 12, 14).
- 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.

PRODUCT DATA

Packaging size	Set: A + B = 5,00 kg: A = 3,57 kg B = 1,43 kg Set: A + B = 10,00 kg: A = 7,14 kg B = 2,86 kg
Shelf life	Approx. 12 months from the date of production
Colour	See Colour Chart.

TECHNICAL DATA

Density	Approx. 1.37 kg/dm³
Consumption	Approx. 150 - 350 g/m² per layer depending on the structure of the subfloor.
Mixing ratio	71.4 part by weight comp. A 28.6 part by weight comp. B
Pot life	Approx. 20-30 minutes*
Ready for foot traffic	After 2 hours*
Recoatable	After 2 – 4 hours (apply the next layer within 24 hours)*
Full mechanical resilience	After 1 day*
Chemically resistant	After 3 days*
Water durable	After 4 hours*
Frost resistance	No
Viscosity (23°C)	Approx. 1500 mPa·s
Adhesion strength	> 1,5 N/mm² (depending on the adhesion strength of the substrate)
Abrasion resistance Taber (7d/21°C/60% r.h.)	47 mg (CS-10/1000U/1000g)

Slip-resistant option

Can be used for renovations

Hard-wearing and good scratch resistance

UV-stable

Good resistance to chemicals

Food-safe

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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 > 1.0 MPa (N/mm²)). Cement and gypsum based subfloors must be dried for at least 28 days before being coated. The following values apply:

- Cement based floors: < 4%
- Gypsum based floors: < 0%
- Gypsum based floors in combination with underfloor heating: < 0%

SUBFLOOR PREPARATION

Remove non-adherent layers and contaminants by suitable mechanical means (e.g. shot blasting, milling or grinding/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*.

SYSTEM STRUCTURE

Primer:
First layer Arturo PAS3790 Floor Coating.

Coating:
Second layer Arturo PAS3790 Floor Coating.

PROCESSING CONDITIONS

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

- Min.: + 10°C
- Max.: + 30°C
- Optimum: + 20°C

Maximum relative humidity: 80%.

These conditions must be observed while processing as well as curing. Provide adequate ventilation. BUT: Draughts must be avoided. This can lead to different degrees in gloss and problems in the surface.

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

PROCESSING INSTRUCTIONS

Stir component A using a mechanical stirrer. Add component B and mix for at least 3 minutes with an electrical mixer (speed ca. 300 – 400 rpm). Then transfer to a clean bucket and mix thoroughly once again for ca. 1 minute. Apply a closed, uniform layer of the mixture to the subfloor using a smoothing trowel or a not too flexible wiper. Then roll the surface with a 50 cm wide nylon roller. Change the roller regularly to avoid dried material in the roller. Do not work too large an area, in order to prevent unevenness from reacted material. Also avoid long waiting times during a working step to prevent such unevenness. Apply at least 2 layers of Arturo PAS3790 Floor Coating. When applying a further layer to already coated subfloors, it is vital that the existing cured layers are totally tack-free. For waiting times of over 24 hours, the existing layer must be roughened by suitable means (e.g. sanding). Then make the surface 100% dust-free by vacuuming and cleaning with damp cloths.

Colour 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.

PAS3790 Floor Coating is impermeable to liquids if at least 2 layers are applied.

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 sb) is 500 g/l in the ready-to-use state (version 2010). The VOC content of Arturo PAS3790 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

Component A: Contains: Tetraethyl-N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects. Component B: Contains isocyanates. May produce an allergic reaction. Harmful if inhaled. May cause an allergic skin reaction. May cause respiratory irritation. Both components: Use barrier cream, protective gloves and safety-goggles. Provide good ventilation. 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. 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.