

 **arturo**[®]
UNIQUE FLOORING

Resin flooring
systems & components
what a floor can do.



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We are Arturo – our floors have a long history

Welcome to Arturo. We are a specialist manufacturer of resin floors and offer a wide range of self-smoothing floors, resin screeds, coatings and sealers for the industrial sector, public buildings, offices and residential use.

Arturo is a brand of Uzin Utz AG, a leading international manufacturer of flooring systems with over a 100 years of expertise. The floors are produced by Uzin Utz Nederland B.V., a Dutch subsidiary.

Since its founding in 1911 our parent company has grown from a regional adhesive manufacturer into a global supplier of floor systems. The company has a reputation for its products, services and innovation in the area of new flooring and floor renovation.

We benefit from this in-depth expertise and put the focus on the development of new and advanced resin flooring.

Holistic and responsible approach

At Arturo our aim is to live and work in such a way that everything we create is sustainable and will be there for future generations. That's why we take a holistic, long-term and environmental approach.

This philosophy influences not only our products and production processes but also manifests itself in our company headquarters, which is one of the most sustainable buildings in the Netherlands.



Ecological and sustainable

Arturo floors meet the needs for sustainable buildings for BREEAM and DGNB certification. All products are solvent-free, low in emissions and manufactured in accordance with ISO 9001 and ISO 14001.

Regular internal and external quality checks as well as compliance with statutory regulations such as those of the AgBB (German Committee for Health-related Evaluation of Building Products) are a priority for us. Using Environmental Product Declarations (EPDs) we provide comprehensive information about the environmental effects of Arturo products during their whole life cycle.



Green roof

The roof is covered with vegetation, with the plants providing insulation against heat, cold and noise. The plants bind CO₂ and fine dust particles from the air. Rainwater is collected and utilized for flushing the toilets.



CO₂-neutral production

The heating of the buildings and the heat required in production areas is generated by a combination of pellet heating and geothermal heat using a heat pump. As soon as additional heating is required, this is generated from the biomass fuelled pellet heating. The overall operation of the buildings and production is CO₂ neutral.



Intelligent building

The air, light and temperature are sensor-controlled, meaning the work conditions are always ideal. The taps, showers and toilets are designed so that water consumption is minimal.

Flooring solutions for all requirements

No two floors are alike. The surroundings, position within the building and loads on a floor mean that no two floors have the same requirements. For example, production halls, storage areas, shop floors, schools, health centres, offices and homes all put different demands on flooring.

Polyurethane and epoxy resin floors are unique in the way they are able to meet the specific demands of these different floor areas. A primer first forms a monolithic layer on the subfloor.

The next layer, the self-smoothing floor or coating provides the desired floor properties. The top sealer then provides a suitable appearance and gives additional protection.

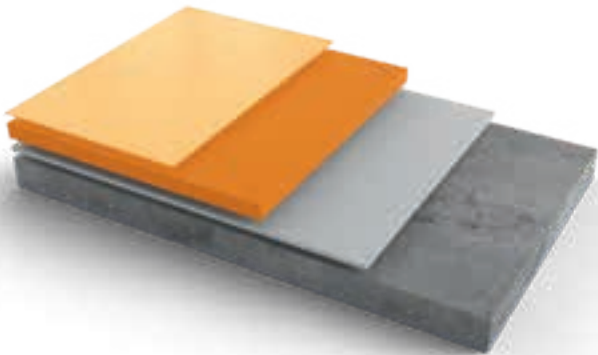
Arturo floor systems can be installed without seams. The result is a seamless, easy-to-clean and durable surface. The floor/wall connection can also be designed so the skirting has a seamless chamfer.

Features such as high chemical, mechanical or thermal resistance, slip-resistant properties, UV stability, and insulation can be provided as well as special requirements such as electrical conductivity.

Arturo floor systems truly have limitless designs. Whether via colour, flakes, a concrete look, individual design or graphic encapsulation, there is a suitable Arturo system to meet your every need.

System example:

HEAVY-DUTY FLOOR SYSTEMS



Primer/Scratch coat

Forms a monolithic layer on the subfloor.



Self-smoothing floor

Applied as a self-smoothing liquid, the reactive resin determines the mechanical properties of the floor.



Top coat

Provides an attractive surface and gives additional protection.

Modular & customised

Arturo uses modular system components which are combined as necessary to meet the requirements of your specific floor. This means that each floor system is precisely customised to meet your flooring needs.



This overview covers the most popular floor systems and outlines their key benefits.

For simplicity, these are categorised into the following:

HEAVY-DUTY FLOOR SYSTEMS

> PRODUCTION AREAS // WAREHOUSES // WORKSHOPS



SLIP-RESISTANT OS8 FLOOR SYSTEMS

> MULTI-STOREY CAR PARKS //
UNDERGROUND CAR PARKS



DESIGN FLOOR SYSTEMS

> PUBLIC AREAS //
COMMERCIAL BUILDINGS //
HEALTH & CARE // RESIDENTIAL



CONDUCTING FLOOR SYSTEMS

> EXPLOSION-PROOF & ESD AREAS //
CLEANROOMS // PRODUCTION AREAS //
LABORATORIES



ECONOMICAL THIN LAYER FLOOR SYSTEMS

> STORAGE AREAS // PRODUCTION AREAS //
PRIVATE GARAGES // SHOPS



PRODUCTION AREAS //
WAREHOUSES //
WORKSHOPS
> HARD // ABRASION
RESISTANT // HEAVY-DUTY!

HEAVY-DUTY FLOOR SYSTEMS

Whether it is warehouse racking or heavy vehicles, industrial floors exposed to high mechanical loads require durable floor coatings. Arturo multilayer systems are proven all-rounders. By adapting the layer composition, surface finish and design, suitable floors are available for almost all sectors of industry. Epoxy resin systems such as Arturo EP1000/EP1200/EP1250 resin screeds and Arturo EP2500 are ideal where there are high mechanical loads. They are hard, abrasion resistant and compression resistant.

For production and assembly areas that are exposed to only light and moderate loads, polyurethane floor systems such as Arturo PU2060 are often the more effective solution. Due to their high elasticity, Arturo PU floors are very flexible. All product variants have high chemical resistance. The EP2500 and PU2060 floor systems are available in many colours and are also particularly suitable for colour coding systems or for indicating specific production areas.

System benefits

- > High abrasion resistance and compression resistance
- > High chemical resistance
- > Slip-resistant (DIN 51130)
- > Flexible variant (Arturo PU2060)
- > Coating compliant variant (Arturo EP2500)
- > Food industry compliant
- > Self-smoothing*, seamless
- > No pores, impermeable to liquids

* only Arturo EP2500 and PU2060



- > Hygienic, for clean and dust-free production areas
- > Low maintenance costs due to the smooth, easy-to-clean surface
- > Versatile – use coloured surfaces for highlighting specific areas
- > Abrasion resistant

System information

Coating system:

Multilayer system based on EP or PU resin

Features:

Customised layer thickness allows precise adaptation to your requirements

Load limit:

From light to heavy mechanical loads depending on the layer thickness

Areas of use:

Industrial production areas, storage areas, workshops, automotive and food industries

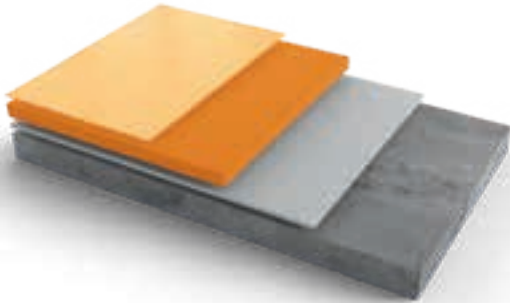
Relevant standards:

DIN EN 1504-2: Products and systems for the protection and maintenance of concrete structures

DIN EN 13813: Screed mortar and floor screeds – properties and requirements

Arturo PU2060 Floor System

System example:



Tough and resilient floor system with versatile design options

LAYER THICKNESS: 2 to 4 mm

USAGE: Light- to medium-duty

SUBFLOOR/CONCRETE

PRIMER/SCRATCH COAT (for information see page 40):

- Arturo EP6500 Primer
- Arturo EP6200 Scratch Coat

SELF-SMOOTHING FLOOR (for information see page 42):

- Arturo PU2060 Self-smoothing Floor

TOP COAT (for information see page 44):

Coloured sealers:

- Arturo PU3320 Sealer (satin, UV-stable)
- Arturo PU7900 Sealer (semi-gloss, UV-stable)

Transparent sealers:

- Arturo PU7180 Sealer (gloss)
- Arturo PU7975 Sealer (satin)

Slip-resistance classes (testing of floor coverings according to DIN 51130)*

Floor system/system component	Slip-resistance**				Displacement volume
	R9	R10	R11	R12	
Arturo PU2060 Self-smoothing Floor					
+ Arturo PU3320 Sealer		•			
+ Arturo PU7180 Sealer	•				
+ Arturo PU7900 Sealer		•			
+ Arturo PU7975 Sealer		•			

*For more information please refer to our information sheet "Slip resistance" on www.arturoflooring.com.

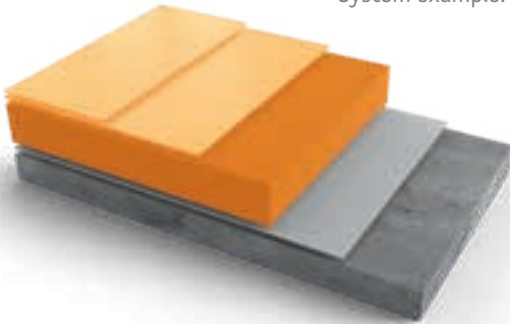
**For Pendulum test values (PTV) used in the UK please contact us for more information.



Arturo PU2060 Floor System
at Ohtmar Brewery, NL-Ootmarsum

Arturo EP1000/EP1200/EP1250 Floor System

System example:



For high demands on the mechanical, chemical and thermal resistance

LAYER THICKNESS: 6 to 12 mm

USAGE: Medium- to heavy-duty

SUBFLOOR/CONCRETE

PRIMER/SCRATCH COAT (for information see page 40):

- Arturo EP6500 Primer

RESIN SCREED (for information see page 42):

- Arturo EP1000 Resin Screed
- Arturo EP1200 Resin Screed
- Arturo EP1250 Resin Screed

TRANSPARENT SEALER (for information see page 44):

- Arturo EP7950 Sealer (gloss)

TOP COAT (for information see page 44):

Transparent sealers:

- Arturo EP7610 Sealer (extra matt)

Slip-resistance classes (testing of floor coverings according to DIN 51130)*

Floor system/system component	Slip-resistance**				Displacement volume
	R9	R10	R11	R12	
Arturo EP1000/1200/1250 Resin Screed					
+ Arturo EP7610 Sealer		•			
+ Arturo EP7610 Sealer + 5% Ballotini (75-150 µm)		•			

*For more information please refer to our information sheet "Slip resistance" on www.arturoflooring.com.

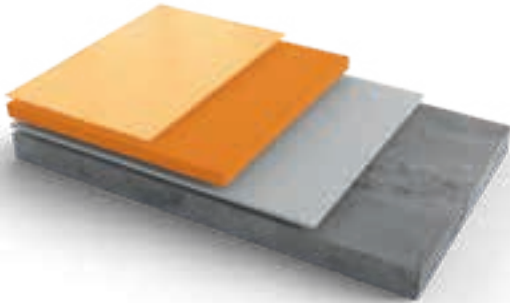
**For Pendulum test values (PTV) used in the UK please contact us for more information.



Arturo EP1200 Floor System at Flowserve, NL-Hengelo

Arturo EP2500 Floor System

System example:



Durable epoxy resin
with versatile design options

LAYER THICKNESS: 2 to 4 mm

USAGE: Medium- to heavy-duty

SUBFLOOR/CONCRETE

PRIMER/SCRATCH COAT (for information see page 40):

- Arturo EP6500 Primer
- Arturo EP6200 Scratch Coat

SELF-SMOOTHING FLOOR (for information see page 42):

- Arturo EP2500 Self-smoothing Floor

TOP COAT (for information see page 44):

Coloured coatings/sealers:

- Arturo EP3900 Floor Coating (gloss)
- Arturo EP3910 Floor Coating, slip-resistant (gloss)

Transparent sealers:

- Arturo EP3950 Sealer (gloss), with addition of Arturo Ballotini
- Arturo EP7610 Sealer (extra matt)

Slip-resistance classes (testing of floor coverings according to DIN 51130)*

Floor system/system component	Slip-resistance**				Displacement volume
	R9	R10	R11	R12	
Arturo EP2500 Self-smoothing Floor					
+ Arturo EP3900 Floor Coating + 10% Arturo Ballotini (180-300 µm)		•			
+ Arturo EP3900 Floor Coating blinded with quartz sand (0.3-0.8 mm)			•		V6
+ Arturo EP3900 Floor Coating blinded with quartz sand (0.6-1.2 mm)				•	V6
+ Arturo EP3910 Floor Coating (250 g/m ²)		•			
+ Arturo EP3910 Floor Coating (350 g/m ²)	•				
+ Arturo EP3950 Sealer + 30% Arturo Ballotini (180-300 µm)		•			
+ Arturo EP3950 Sealer + 30% Arturo Ballotini (250-425 µm)		•			
+ Arturo EP3950 Sealer blinded with quartz sand (0.3-0.8 mm)			•		V4
+ Arturo EP7610 Sealer		•			
+ Arturo EP7610 Sealer + 5% Ballotini (75-150 µm)		•			

*For more information please refer to our information sheet "Slip resistance" on www.arturoflooring.com.

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Arturo EP2500 Floor System at Unipart Group
Showpiece HSS Fuel Cell Area, UK-Cowley, Oxfordshire



Arturo EP2500 Floor System
at Kissling Elektrotechnik GmbH, DE-Wildberg



MULTI-STOREY CAR PARKS //
UNDERGROUND CAR PARKS
> HEAVY-DUTY //
ABRASION RESISTANT //
SLIP-RESISTANT!

SLIP-RESISTANT OS8 FLOOR SYSTEMS

The surface of a multi-storey car park is exposed to extreme mechanical and chemical loads (e.g. fuel, road salt, temperature variations and moisture). The use of abrasion-resistant floor systems provides durable protection for the surfaces of multi-storey and underground car parks. Therefore, these floors ensure the long term functionality and economic viability of these car parks. Slip-resistant Arturo OS8 systems

(DAfStb 2001) are suitable for new projects, renovation and rapid maintenance work to areas in contact with the ground, intermediate decks, ramps and walkways. Along with accompanying crack repair, easy and economic maintenance is possible.

A large range of colours are available, enabling text and colour accents to be used to customise the parking area.

System benefits

- > Seamless
- > High resistance to wear and abrasion, suitable for wheels
- > Resistant to fuels, oil and road salt
- > Tested against rising damp
- > Simple, economical system structure
- > Low weight per unit area
- > Resistant to weathering



- > Slip-resistant: good grip, even in wet conditions
- > Long life durable surface
- > Low maintenance costs due to the easy-to-clean and insensitive surface
- > Large range of colours for highlighting different parking areas

System information

Coating system:

Rigid coating for surfaces exposed to vehicles and high mechanical loads in accordance with Rili DAfStb OS8; multilayer system based on EP resin

Features:

High abrasion resistance, slip-resistant, resistant to road salt, petrol, oil and diesel

Areas of use:

Multi-storey and underground car parks: Floor ("white tank" design), intermediate decks, ramps and walkways

Relevant standards:

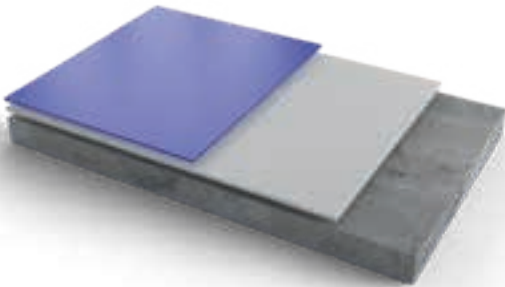
DIN 1045 Version 2008: Structures made of concrete and reinforced concrete Part 1: Sizing and design guideline "Protection and maintenance of concrete components according to the German Committee for Reinforced Concrete (DAfStb)", October 2001, incl. 2nd amendment 2005 DIN V 18026: "Surface protection systems for concrete components in accordance with DIN EN 1504-2" (July 2006) for new projects and renovation work

Other systems for walkways/stairways:

- Arturo EP3020 Floor System (see page 25)
- Arturo EP3910 Floor System (see page 27)
- Arturo PAS3790 Floor System (see page 28)

Arturo OS8 Floor System

System example 1:



MINIMUM LAYER THICKNESS (dmin): 1.5 mm

Only permitted for pure protective measures according to DIN EN 13813

USAGE: For surfaces subjected to high mechanical loads according Rili DAfStb OS8

SUBFLOOR/CONCRETE

PRIMER/SCRATCH COAT (for information see page 40):

- Arturo EP6955 Primer OS8, mixed with quartz sand 0.1-0.5 mm (1:1), consumption 900 g/m² (each 450 g/m² Arturo EP6955 Primer and quartz sand), fully gritted with quartz sand 0.3-0.8 mm

COATING (for information see page 44):

Coloured coatings:

- Arturo EP3900 Floor Coating (gloss), consumption approx. 700-900 g/m²

Slip-resistance classes (testing of floor coverings according to DIN 51130)*

Floor system/system component	Slip-resistance**	Displacement volume
Arturo EP6955 Primer OS8 + quartz sand (0.3-0.8 mm) + Arturo EP3900 Floor Coating	R11	V6

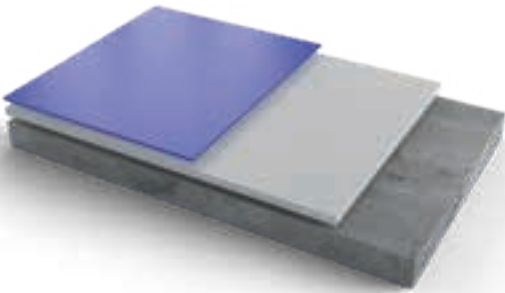
*For more information please refer to our information sheet "Slip resistance" on www.arturoflooring.com.

**For Pendulum test values (PTV) used in the UK please contact us for more information.



Resistant to fuels, oil and road salt –
Underground parking Alte Weberei Lustnau, DE-Tübingen

System example 2:



MINIMUM LAYER THICKNESS (dmin): 2.5 mm
 For base plates according to DIN 1045-1 (belonging to the supporting framework), decks, ramps, and walkways

USAGE: For surfaces subjected to high mechanical loads according Rili DAfStb OS8

SUBFLOOR/CONCRETE

PRIMER/SCRATCH COAT (for information see page 40):

- Arturo EP6955 Primer OS8, mixed with quartz sand 0.3-0.8 mm (1:1), consumption 1600 g/m² (each 800 g/m² Arturo EP6955 Primer and quartz sand), fully gritted with quartz sand 0.3-0.8 mm

COATING (for information see page 44):

Coloured coatings:

- Arturo EP3900 Floor Coating (gloss), consumption approx. 700-900 g/m²

Slip-resistance classes (testing of floor coverings according to DIN 51130)*

Floor system/system component	Slip-resistance**	Displacement volume
Arturo EP6955 Primer OS8 + quartz sand (0.3-0.8 mm) + Arturo EP3900 Floor Coating	R11	V6

*For more information please refer to our information sheet "Slip resistance" on www.arturoflooring.com.

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Decks and spiral ramps



Walkways, stairwells – Underground garage residential complex, DE-Stuttgart-Stammheim



**EXPLOSION-PROOF
& ESD AREAS //
CLEANROOMS //
PRODUCTION AREAS //
LABORATORIES
> ELECTRICALLY CONDUCTING //
RESISTANCE TO CHEMICALS!**

CONDUCTING FLOOR SYSTEMS

A conducting floor is essential in situations where electrical charging is a hazard for people and equipment. Besides technical and laboratory areas, this also concerns explosion-proof areas where powders, gases and solvents are produced. Examples include bakeries, companies where milling is undertaken and the metalworking industry. Even the smallest spark due to uncontrolled electrical discharge has the ability to cause an enormous explosion. In ESD areas and cleanrooms in the

electrical, electronics, microelectronics, automotive and biotechnology industries, top priority is put on protecting electronic components against electrostatic discharge.

The electrically conducting systems Arturo EP2480 (explosion protection) and EP2490 (ESD & cleanrooms) provide protection against the uncontrolled build up of electrical charge and uncontrolled electrical discharge and are customised to the required voltage window and typical loads.

System benefits

- > Electrically conducting
- > No pores, impermeable to liquids
- > Self-smoothing, seamless
- > Resistance to chemicals
- > Coating compliant variant (Arturo EP2490)
- > Abrasion resistant and compression resistant



- > Suitable for new projects and renovation of existing floors
- > Rapid curing for quick utilisation of the floor
- > Long life due to the high wear resistance and low abrasion
- > Low maintenance costs due to the smooth, easy-to-clean surface
- > Range of colours available

System information

Coating system:

Multilayer system based on EP resin

Features:

Permanently conducting and resistant to chemicals

Load limit:

From light to moderate mechanical loads depending on the layer thickness

Areas of use:

Arturo EP2480 Self-smoothing Floor:

Areas having special requirements on the electrical conductivity, for example explosion-proof areas, munitions stores, industrial production areas, technical areas and laboratories

Arturo EP2490 Self-smoothing Floor:

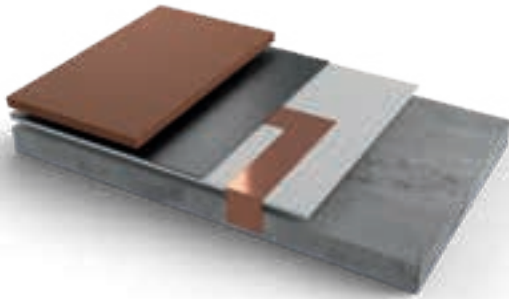
ESD protected zones and cleanrooms needing low electrostatic charge build up and a conducting surface including production areas, laboratories, warehouses and workshops in the electrical, electronics, microelectronics, automotive and biotechnology industries

Relevant standards:

See the table (standards)

Arturo EP2480 Floor System (explosion protection)

System example:



Ideally suited to explosion-protected areas with high requirements on electrical conductivity

LAYER THICKNESS: Approx. 1.5 mm

USAGE: Light- to medium-duty

- **SUBFLOOR/CONCRETE**
- **PRIMER/SCRATCH COAT** (for information see page 40):
 - Arturo EP6500 Primer
 - Arturo EP6200 Scratch Coat
- **COPPER TAPE/CONDUCTING SET**
- **CONDUCTIVE PRIMER** (for information see page 40):
 - Arturo EP6400 Primer
- **SELF-SMOOTHING FLOOR** (for information see page 42):
 - Arturo EP2480 Self-smoothing Floor

Slip-resistance classes (testing of floor coverings according to DIN 51130)*

Floor system/system component	Slip-resistance**				Displacement volume
	R9	R10	R11	R12	
Arturo EP2480 Self-smoothing Floor	•				

*For more information please refer to our information sheet "Slip resistance" on www.arturoflooring.com.

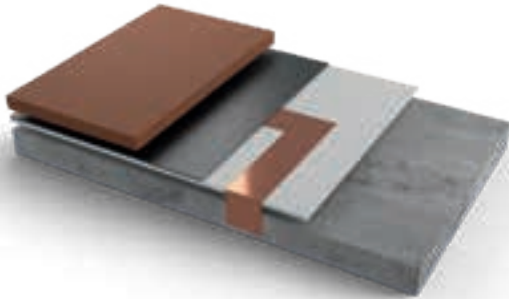
**For Pendulum test values (PTV) used in the UK please contact us for more information.

Standards

Requirements/measurement standards	Description/required measurement values
EN 1081	Measurement method for determining: the the vertical resistance, the resistance to ground, the surface resistance of a resin floors after installation. In practice often required in ATEX rooms: (R_{gp}) < $10^6 \Omega$)
EN 61340-5-1	Protection of electronic devices from electrostatic phenomena – general requirements (fulfils resistance from floor to ground): - Electrical resistance from floor to ground (R_{gp}): < $10^9 \Omega$ - Charging of persons in volt (walking test): < 100 V - System resistance (floor/footwear/person) to ground (R_{gp}): < $10^9 \Omega$
EN IEC 61340-4-1	Measurement method for electrical resistance from floor to ground
EN 1010: 2007 + C1 2008	Safety measures for low-voltage electrical installations
VDE 0100-410	Protection for safety and protection against electric shock. Resistance to ground (R_{gp}): > $5 \times 10^4 \Omega$ (with voltage of < 500 V)

Arturo EP2490 Floor System (ESD & cleanrooms)

System example:



Ideally suited to ESD protection zones (Electro Static Discharge) and cleanrooms where a low electrostatic charge (Body Voltage) and conductive surface (EPA = Electrostatic Protected Area) is required

LAYER THICKNESS: Approx. 2 mm

USAGE: Light- to medium-duty

- **SUBFLOOR/CONCRETE**
- **PRIMER/SCRATCH COAT** (for information see page 40):
 - Arturo EP6500 Primer
 - Arturo EP6200 Scratch Coat
- **COPPER TAPE/CONDUCTING SET**
- **CONDUCTIVE PRIMER** (for information see page 40):
 - Arturo EP6400 Primer
- **SELF-SMOOTHING FLOOR** (for information see page 42):
 - Arturo EP2490 Self-smoothing Floor

Slip-resistance classes (testing of floor coverings according to DIN 51130)*

Floor system/system component	Slip-resistance**				Displacement volume
	R9	R10	R11	R12	
Arturo EP2490 Self-smoothing Floor	•				

*For more information please refer to our information sheet "Slip resistance" on www.arturoflooring.com.

**For Pendulum test values (PTV) used in the UK please contact us for more information.

Standards

Requirements/measurement standards	Description/required measurement values
EN 61340-5-1	Protection of electronic devices from electrostatic phenomena – general requirements: - Electrical resistance from floor to ground (R_{gp}): $< 10^9 \Omega$ - Charging of persons in volt (walking test): $< 100 V$ - System resistance (floor/footwear/person) to ground (R_{gp}): $< 10^9 \Omega$
EN IEC 61340-4-1	Measurement method for electrical resistance from floor to ground
EN IEC 61340-4-5	Measurement method for electrical resistance of: - The system (floor/footwear/person) to ground - The personal charge in volt (walking test)
EN 1010: 2007 + C1 2008	Safety measures for low-voltage electrical installations
VDE 0100-410	Protection for safety and protection against electric shock. Resistance to ground (R_{gp}): $> 5 \times 10^4 \Omega$ (with voltage of $< 500 V$)



**STORAGE AREAS //
PRODUCTION AREAS //
PRIVATE GARAGES // SHOPS
> ECONOMICAL //
DURABLE // EFFECTIVE!**

ECONOMICAL THIN LAYER FLOOR SYSTEMS

Arturo thin layer floor systems provide a cost-effective solution in areas having light to moderate loads.

Arturo epoxy resin or polyaspartic floor finishes are often installed in storage areas, assembly areas and shops as they are easy to use and cost effective. Due to their excellent coverage,

it is not normally necessary for more than two coats. A first layer and finishing layer are applied to concrete. That saves material, time and money. Their extremely robust providing a coating which is long life.

System benefits

- > Dust-binding, seamless, durable
- > Smooth or slip-resistant surfaces
- > Can be renewed multiple times
- > Water vapour permeable variants (Arturo EP3010, EP3020, EP3800 for walls)
- > Food industry compliant variants (Arturo EP3010, EP3020, EP3900/EP3910)
- > Fast hardening, UV-stable variant (Arturo PAS3790, PAS7790)



- > Protects surfaces, enhances the abrasion resistance and makes cleaning easier
- > Cost-effective solution due to easy installation and low material usage
- > Large selection of colours
- > Water vapour permeable variant: Universal use on subfloors in contact with the ground, magnesia and gypsum screeds
- > Fast hardening variant: Rapid reutilisation of the floor surface
- > Low emissions in accordance with AgBB (EP3010, EP3020, EP3900)

System information

Coating system:

Two layer or multilayer system based on EP resin or aspartic acid ester. Available as water vapour permeable, structured, slip-resistant, food industry compliant and fast hardening variants

Features:

Durable, fast to apply and economical

Load limit:

Suitable for light to moderate loads

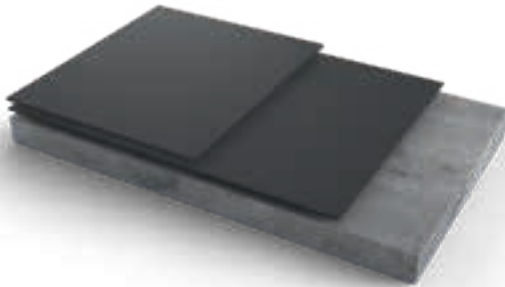
Areas of use:

Production areas, storage areas, technical areas, shops, cellars, store rooms, private garages, stairways, galleries, balconies/loggias*

* only Arturo PAS3790 Floor System

Arturo EP3010 Floor System

System example:



Water vapour permeable EP-floor coating for durable surface protection – water-dilutable, economical, large variety of colours

LAYER THICKNESS: < 0.5 mm

USAGE: Light- to medium-duty

SUBFLOOR/CONCRETE

PRIMER (for information see page 44):

- Arturo EP3010 Floor Coating

COATING (for information see page 44):

Coloured coatings:

- Arturo EP3010 Floor Coating (satin)

OPTIONAL SEALERS (for information see page 44):

Transparent sealers:

- Arturo EP7610 Sealer (extra matt)

Slip-resistance classes (testing of floor coverings according to DIN 51130)*

Floor system/system component	Slip-resistance**				Displacement volume
	R9	R10	R11	R12	
Arturo EP3010 Floor Coating	•				
+ slip-resistant agent		•			
+ 5% Arturo Ballotini (75-150 µm)		•			
+ 5% Arturo Ballotini (180-300 µm)		•			
Arturo Scratch Coat blinded with quartz sand 0.3-0.8 mm + Arturo EP3010 Floor Coating (2x)				•	V4

*For more information please refer to our information sheet "Slip resistance" on www.arturoflooring.com.

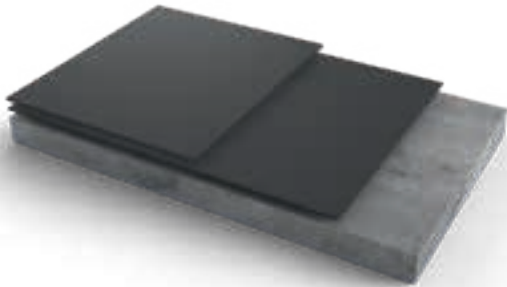
**For Pendulum test values (PTV) used in the UK please contact us for more information.



Arturo EP3010 Floor System – economical, universal applicable and available in a large variety of colours

Arturo EP3020 Floor System

System example 1:



Water vapour permeable EP-floor coating for durable surface protection, fillable with sand

LAYER THICKNESS: < 0.5 mm

USAGE: Light- to medium-duty

■ **SUBFLOOR/CONCRETE**

■ **PRIMER** (for information see page 44):

- Arturo EP3020 Floor Coating

■ **COATING** (for information see page 44):

Coloured coatings:

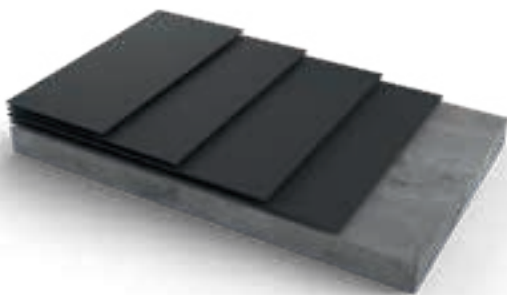
- Arturo EP3020 Floor Coating (semi-gloss)

■ **OPTIONAL SEALERS** (for information see page 44):

Transparent sealers:

- Arturo EP7610 Sealer (extra matt)

System example 2:



Water vapour permeable EP-floor coating multilayered system

LAYER THICKNESS: 1 to 2 mm

USAGE: Light- to medium-duty

■ **SUBFLOOR/CONCRETE**

■ **PRIMER** (for information see page 44):

- Arturo EP3020 Floor Coating

■ **SCRATCH COAT** (for information see page 44):

- Arturo EP3020 Floor Coating, mixed with quartz sand

■ **COATING** (for information see page 44):

Coloured coatings:

- Arturo EP3020 Floor Coating (semi-gloss)

■ **OPTIONAL COATINGS/SEALERS** (for information see page 44):

Coloured coatings:

- Arturo EP3020 Floor Coating (semi-gloss)

Transparent sealers:

- Arturo EP7610 Sealer (extra matt)

Slip-resistance classes (testing of floor coverings according to DIN 51130)*

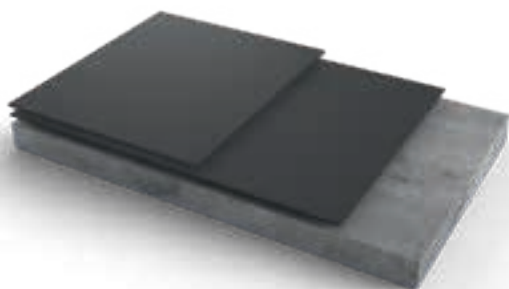
Floor system/system component	Slip-resistance**				Displacement volume
	R9	R10	R11	R12	
Arturo EP3020 Floor Coating	•				
+ 5% Arturo Ballotini (75-150 µm)		•			
+ 10% filler (50% Geba sand 0.06-0.3 mm + 50% quartz sand mixture 0.1-0.3 mm)			•		V4
Arturo EP3020 Primer + Arturo EP3020 Scratch Coat with Geba sand 0.06-0.3 mm at a ratio of 1:1, blinded with quartz sand 0.3-0.8 mm + Arturo EP3020 Floor Coating				•	V4
+ Arturo EP7610 Sealer		•			

*For more information please refer to our information sheet "Slip resistance" on www.arturoflooring.com.

**For Pendulum test values (PTV) used in the UK please contact us for more information.

Arturo EP3400 Floor System

System example:



■ **SUBFLOOR/CONCRETE**

■ **PRIMER** (for information see page 44):

- Arturo EP3400 Floor Coating

■ **COATING** (for information see page 44):

Coloured coatings:

- Arturo EP3400 Floor Coating (anti-static, gloss)

Durable, anti-static floor coating for cement and anhydrite bound subfloors

LAYER THICKNESS: < 0.5 mm

USAGE: Light- to medium-duty

Standards

Requirements/measurement standards	Description/required measurement values
EN IEC 61340-4-5	Measurement method for electrical resistance of: - The system (floor/footwear/person) to ground - The personal charge in volt (walking test)
EN IEC 61340-4-1	Measurement method for electrical resistance from floor to ground <math>< 10^{10} \Omega</math>

Arturo EP3800 Wall System

System example:



■ **SUBFLOOR/CONCRETE**

■ **PRIMER** (for information see page 44):

- Arturo EP3800 Wall Coating

■ **COATING** (for information see page 44):

Coloured Coatings:

- Arturo EP3800 Wall Coating (matt)

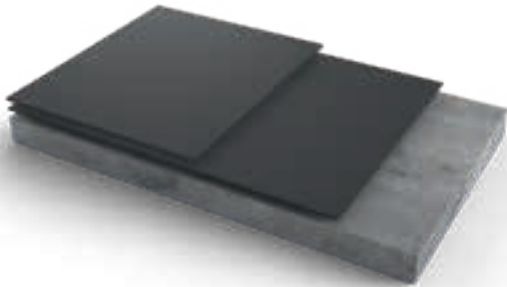
LAYER THICKNESS: < 1 mm

USAGE: Light- to medium-duty

Water vapour permeable wall coating for wall surfaces requiring protection

Arturo EP3900/EP3910 Floor System

System example:



Economic EP-floor coating for effective and long lasting surface protection – large variety of colours

LAYER THICKNESS: < 0.5 mm

USAGE: Light- to medium-duty

■ **SUBFLOOR/CONCRETE**

■ **PRIMER** (for information see page 44):

- Arturo EP3900 Floor Coating

■ **COATING** (for information see page 44):

Coloured coatings:

- Arturo EP3900 Floor Coating (gloss)
- Arturo EP3910 Floor Coating, slip-resistant (gloss)

■ **OPTIONAL SEALERS** (for information see page 44):

Transparent sealers:

- Arturo EP3950 Sealer (gloss) with addition of Arturo Ballotini
- Arturo EP7610 Sealer (extra matt)

Slip-resistance classes (testing of floor coverings according to DIN 51130)*

Floor system/system component	Slip-resistance**				Displacement volume
	R9	R10	R11	R12	
Arturo EP3900/EP3910 (slip-resistant) Floor Coating					
Arturo EP3900 Floor Coating blinded with quartz sand (0.6-1.2 mm)				•	V6
Arturo EP3900 Floor Coating blinded with quartz sand (0.3-0.8 mm)			•		V6
Arturo EP3910 Floor Coating (250 g/m ²)		•			
Arturo EP3910 Floor Coating (350 g/m ²)	•				
+ Arturo EP3950 Sealer + Arturo Ballotini (180-300/250-425 µm)		•			
+ Arturo EP3950 Sealer blinded with quartz sand (0.3-0.8 mm)			•		V6
+ Arturo EP7610 Sealer		•			

*For more information please refer to our information sheet "Slip resistance" on www.arturoflooring.com.

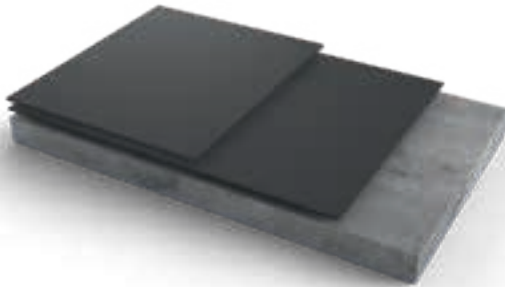
**For Pendulum test values (PTV) used in the UK please contact us for more information.



Arturo EP3900 Floor System
at RAF Museum, UK-London

Arturo PAS3790 Floor System

System example:



Fast hardening, UV-stable coating
for durable surface protection indoor and outdoor

LAYER THICKNESS: < 0.5 mm

USAGE: Light- to medium-duty

■ **SUBFLOOR/CONCRETE**

■ **PRIMER** (for information see page 44):

- Arturo PAS3790 Floor Coating

■ **COATING** (for information see page 44):

Coloured coatings:

- Arturo PAS3790 Floor Coating (gloss)

■ **OPTIONAL SEALERS** (for information see page 44):

Transparent sealers:

- Arturo PAS7790 Sealer (gloss)

Slip-resistance classes (testing of floor coverings according to DIN 51130)*

Floor system/system component	Slip-resistance**				Displacement volume
	R9	R10	R11	R12	
Arturo PAS3790 Floor Coating					
+ 7.5% quartz sand (0.1-0.3 mm)		•			
+ 10% Arturo Ballotini (180-300 µm)		•			
+ blinded with quartz sand (0.3-0.8 mm)			•		V4
+ Arturo PAS7790 Floor Coating		•			

*For more information please refer to our information sheet "Slip resistance" on www.arturoflooring.com.

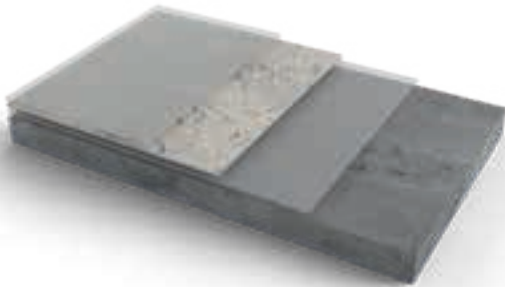
**For Pendulum test values (PTV) used in the UK please contact us for more information.



Arturo PAS3790 Floor System – fast hardening,
for a quick reusability of the surface

Arturo PAS7790 Floor System

System example:



Fast hardening, UV-stable transparent sealer for durable surface protection indoor and outdoor

LAYER THICKNESS: < 0.5 mm

USAGE: Light- to medium-duty

SUBFLOOR/CONCRETE

PRIMER (for information see page 44):

- Arturo PAS7790 Sealer

COLOUR QUARTZ:

- Blinded with colour quartz

SEALER (for information see page 44):

Transparent sealers:

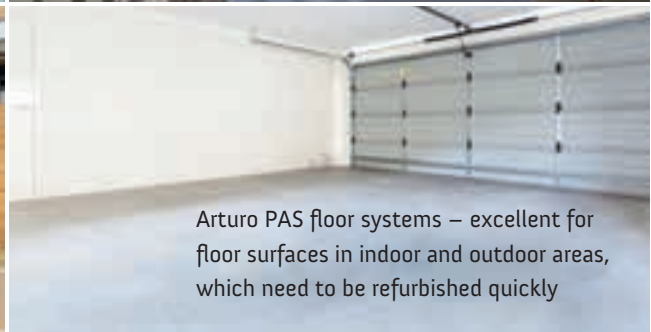
- Arturo PAS7790 Sealer (gloss)

Slip-resistance classes (testing of floor coverings according to DIN 51130)*

Floor system/system component	Slip-resistance**				Displacement volume
	R9	R10	R11	R12	
Arturo PAS7790 Sealer					
+ 10% Arturo Ballotini (180-300 µm)		•			
+ blinded with colour quartz (0,4-0,8 mm)			•		V4

*For more information please refer to our information sheet "Slip resistance" on www.arturoflooring.com.

**For Pendulum test values (PTV) used in the UK please contact us for more information.



Arturo PAS floor systems – excellent for floor surfaces in indoor and outdoor areas, which need to be refurbished quickly



PUBLIC AREAS //
COMMERCIAL BUILDINGS //
HEALTH & CARE //
RESIDENTIAL
> DIVERSE //
ATMOSPHERIC //
INDIVIDUAL!

DESIGN FLOOR SYSTEMS

In schools, shops, foyers, offices, doctors' surgeries and homes, aspects such as the interior decor, atmosphere and attractiveness play a significant role.

But the appearance of the floors also needs to be combined with functionality. In addition to a positive first impression, the acoustics, comfort underfoot, sound insulation and easy maintenance are especially important. These are properties which the Arturo PU resin floor systems possess.

Low emissions and AgBB-compliant, Arturo polyurethane resin floors meet the highest quality and health requirements.

An infinite number of design options are possible, from the colour of the corporate design to a concrete look and graphic encapsulation. An Arturo floor gives each room the desired ambience.

System benefits

- > Self-smoothing, seamless
- > Flexible
- > Smooth or slip-resistant surfaces
- > Heat and footstep insulation
- > Abrasion resistant
- > Resistant to chemicals
- > UV and light stable variant (Arturo PU2030)



- > Suitable for underfloor heating
- > Hygienic and no pores
- > Low maintenance costs due to the smooth, easy-to-clean surface
- > Individual floor design
- > Low emissions in accordance with AgBB
- > Exceptional comfort underfoot

System information

Coating system:

Multilayer system based on PU resin

Features:

Individual floor designs can be created via the Arturo Design Studio. The design can be adapted to your corporate identity or to the desired ambience

Load limit:

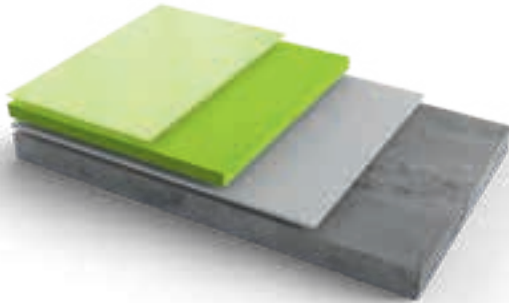
Suitable for light to moderate loads depending on the layer thickness

Areas of use:

Schools, nurseries, care homes, hospitals, doctors' surgeries, shops, offices, social areas, canteens, foyers, showrooms, restaurants, homes

Arturo PU2030 Floor System

System example:



Highly elastic, UV-stable self-smoothing floor with many design options and comfort underfoot

LAYER THICKNESS: 2 to 3 mm

USAGE: Light-duty

SUBFLOOR/CONCRETE

PRIMER/SCRATCH COAT (for information see page 40):

- Arturo EP6500 Primer
- Arturo EP6200 Scratch Coat

SELF-SMOOTHING FLOOR (for information see page 42):

- Arturo PU2030 Self-smoothing Floor

TOP COAT (for information see page 44):

Transparent sealers:

- Arturo PU7180 Sealer (gloss)
- Arturo PU7320 Sealer (satin)
- Arturo PU7750 Sealer (extra matt)
- Arturo PU7975 Sealer (satin)

Slip-resistance classes (testing of floor coverings according to DIN 51130)*

Floor system/system component	Slip-resistance**				Displacement volume
	R9	R10	R11	R12	
Arturo PU2030 Self-smoothing Floor					
+ Arturo PU7180 Sealer	•				
+ Arturo PU7320 Sealer		•			
+ Arturo PU7750 Sealer		•			
+ Arturo PU7975 Sealer		•			

*For more information please refer to our information sheet "Slip resistance" on www.arturoflooring.com.

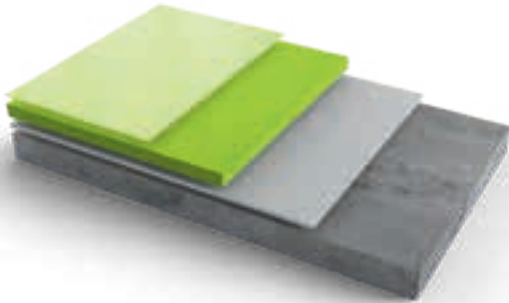
**For Pendulum test values (PTV) used in the UK please contact us for more information.



Arturo PU2030 Floor System at Curzon Cinema, UK-Oxford

Arturo PU2035 Floor System

System example:



Highly elastic self-smoothing floor
with many design options and comfort underfoot

LAYER THICKNESS: 2 to 3 mm

USAGE: Light-duty

SUBFLOOR/CONCRETE

PRIMER/SCRATCH COAT (for information see page 40):

- Arturo EP6500 Primer
- Arturo EP6200 Scratch Coat

SELF-SMOOTHING FLOOR (for information see page 42):

- Arturo PU2035 Self-smoothing Floor

TOP COAT (for information see page 44):

Coloured sealers:

- Arturo PU3320 Sealer (satin, UV-stable)
- Arturo PU7900 Sealer (semi-gloss, UV-stable)

Transparent sealers:

- Arturo PU7180 Sealer (gloss)
- Arturo PU7320 Sealer (satin)
- Arturo PU7750 Sealer (extra matt)
- Arturo PU7975 Sealer (satin)

Slip-resistance classes (testing of floor coverings according to DIN 51130)*

Floor system/system component	Slip-resistance**				Displacement volume
	R9	R10	R11	R12	
Arturo PU2035 Self-smoothing Floor					
+ Arturo PU3320 Sealer		•			
+ Arturo PU7180 Sealer	•				
+ Arturo PU7320 Sealer		•			
+ Arturo PU7750 Sealer		•			
+ Arturo PU7900 Sealer		•			
+ Arturo PU7975 Sealer		•			

*For more information please refer to our information sheet "Slip resistance" on www.arturoflooring.com.

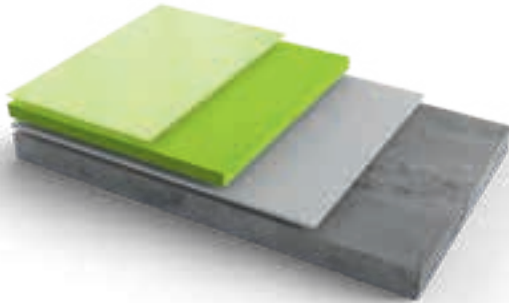
**For Pendulum test values (PTV) used in the UK please contact us for more information.



The highly elastic Arturo PU2035 Floor System offers a variety of design options

Arturo PU2060 Floor System

System example:



Elastic PU resin floor with many design options

LAYER THICKNESS: 2 to 3 mm

USAGE: Light- to medium-duty

SUBFLOOR/CONCRETE

PRIMER/SCRATCH COAT (for information see page 40):

- Arturo EP6500 Primer
- Arturo EP6200 Scratch Coat

SELF-SMOOTHING FLOOR (for information see page 42):

- Arturo PU2060 Self-smoothing Floor

TOP COAT (for information see page 44):

Coloured sealers:

- Arturo PU3320 Sealer (satin, UV-stable)
- Arturo PU7900 Sealer (semi-gloss, UV-stable)

Transparent sealers:

- Arturo PU7180 Sealer (gloss)
- Arturo PU7320 Sealer (satin)
- Arturo PU7750 Sealer (extra matt)
- Arturo PU7975 Sealer (satin)

Slip-resistance classes (testing of floor coverings according to DIN 51130)*

Floor system/system component	Slip-resistance**				Displacement volume
	R9	R10	R11	R12	
Arturo PU2060 Self-smoothing Floor					
+ Arturo PU3320 Sealer		•			
+ Arturo PU7180 Sealer	•				
+ Arturo PU7320 Sealer		•			
+ Arturo PU7750 Sealer		•			
+ Arturo PU7900 Sealer		•			
+ Arturo PU7975 Sealer		•			

*For more information please refer to our information sheet "Slip resistance" on www.arturoflooring.com.

**For Pendulum test values (PTV) used in the UK please contact us for more information.



Arturo PU2060 Floor System
at Helicon Educations, NL-'s-Hertogenbosch (NL)



Arturo PU floor system in the office of Jakub Cigler Architects, CZ-Prague



Arturo PU2060 Floor System at JIP wholesale, CZ-Prague

Detailed solutions – Floor/wall connections

In areas where hygiene is vital, such as in commercial kitchens, the food industry, laboratories, hospitals, sanitary areas, and also industrial areas and multi-storey car parks, the floor/wall connections must be designed to prevent the penetration of dirt, liquids,

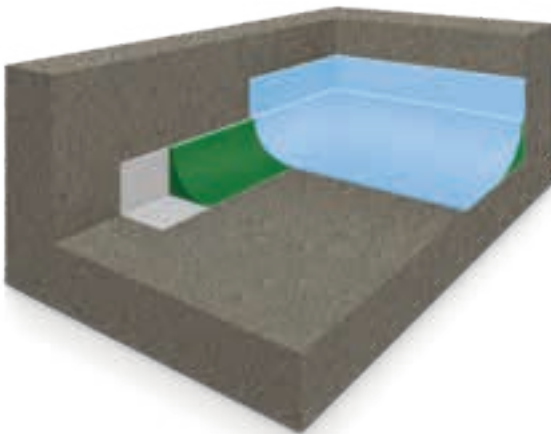
gases and road salt. This is achieved by extending the horizontal floor vertically up the wall for a few centimetres. This creates a sealed, easy-to-clean connection between the floor and walls. A skirting is one possible design for the base connections.

BASE CONNECTIONS – FIXED

In situations where there is a static system where the walls and floor meet, the floor system is connected without a transition. Bonded screeds or concreted floors are fixed and do not move. A skirting forms a fixed connection with the floor and wall.

Arturo EP1851 Skirting Mortar is applied wet on wet into Arturo EP6850 Skirting Primer. After sealing the pores, the Arturo floor finish or Arturo self-smoothing floor or top coat is applied.

System example:



A suitable sealer should be applied as final top coat depending on the flooring requirements

SUBFLOOR/CONCRETE

PRIMER/SCRATCH COAT (for information see page 40):

- Arturo EP6850 Skirting Primer for skirtings on vertical surfaces

SKIRTING (for information see page 42):

- Arturo EP1851 Skirting Mortar for resin floors and coatings
- Arturo EP1000/1200/1250 Resin Screed for resin screeds

RESIN SCREED/SELF-SMOOTHING FLOOR + THIXOTROPIC AGENT (for information see page 42 + 48)

COATING + THIXOTROPIC AGENT (for information see page 44 + 48)



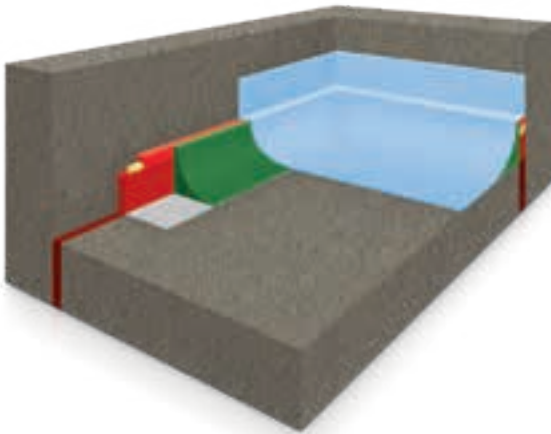
In underground car parks a base connection prevents the penetration of liquids, gases and road salt

BASE CONNECTIONS – MOVEABLE

Compared to bonded screeds, floating screeds and screeds on a release layer can “move”. For this reason, no fixed connection must be made between the floor and walls. In this case moveable base connections are installed to minimise cracking.

The skirting is designed to be permanently elastic for light movement and is designed with adhesive and edge insulation strips for higher movement.

System example:



A suitable sealer should be applied as final top coat depending on the flooring requirements

SUBFLOOR/CONCRETE

EDGE INSULATION STRIPS WITH PERMANENT ELASTIC JOINT

PRIMER/SCRATCH COAT (for information see page 40):

- Arturo EP6850 Skirting Primer for skirtings on vertical surfaces

SKIRTING (for information see page 42):

- Arturo EP1851 Skirting Mortar for resin floors and coatings
- Arturo EP1000/1200/1250 Resin Screed for resin screeds

RESIN SCREED/SELF-SMOOTHING FLOOR + THIXOTROPIC AGENT (for information see page 42 + 48)

COATING + THIXOTROPIC AGENT (for information see page 44 + 48)



Sanitary area in Gymnasium Marienberg, DE-Neuss, with sealed easy-to-clean floor/wall connection

Arturo system components

Primers/scratch coat

Whether on a normal cement screed, gypsum or magnesia screed or cast asphalt – careful subfloor preparation and a suitable Arturo primer provide excellent adhesion for subsequent layers.

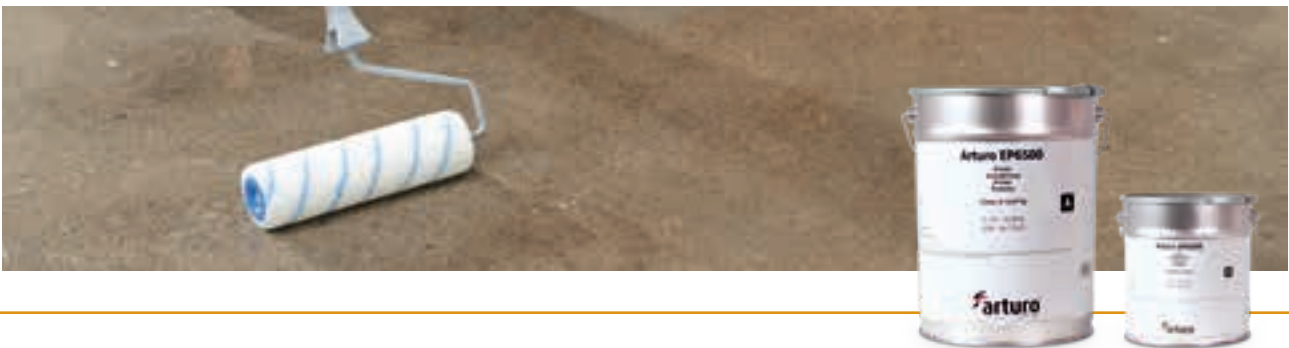
Even subfloors with rising damp or oil contamination and well bonded existing coatings and tiles can be coated with

a suitable Arturo primer. In addition, the Arturo scratch coat can remove discrepancies.

! Tip:

Overview of primers: p. 40

Selecting a suitable primer for your subfloor: p. 52



Resin screeds/mortars/self-smoothing floors

Arturo resin floors provide protection against both mechanical and chemical loads and can be used for new projects, over well bonded existing coatings or for changed usage of a floor. They are also eco-friendly. All products are solvent-free and low in emissions. All Arturo PU floor systems meet the test criteria

for VOC emissions of the AgBB (Committee for Health-related Evaluation of Building Products).

! Tip:

Overview of resin screeds, mortars + self-smoothing floors: p. 42



Thin layer coatings/sealers

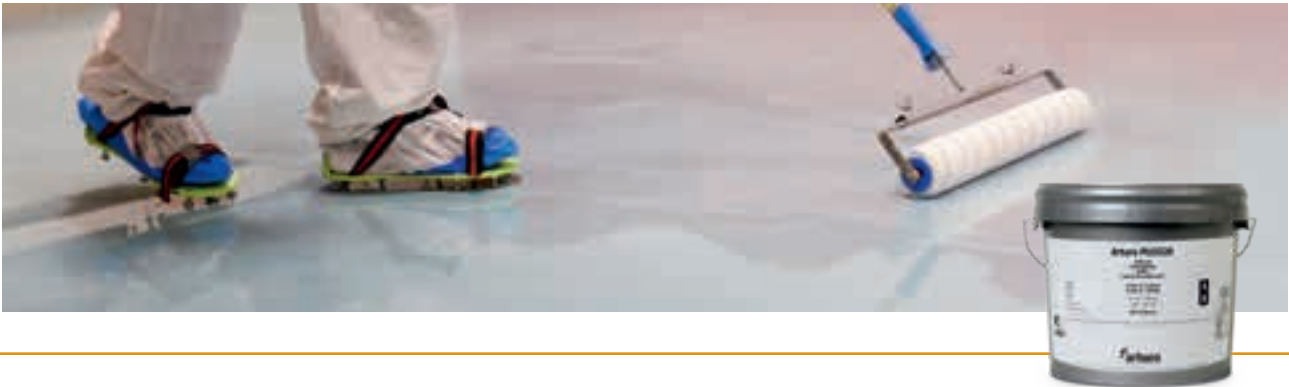
Arturo coloured thin layer floor coatings based on EP resin are excellent for mineral subfloors that are exposed to light to moderate loads. They are cost-effective and can be used on top of well bonded existing coatings. Slip-resistant and water vapour permeability regulations can be met using the correct floor coating. Coloured or transparent sealers based on epoxy or polyurethane resin are suitable as a protective layer for new floor coatings or existing coatings which need refreshing. The appearance and

functionality of the floor surface are thus retained for a long period of time. Most of our coatings and sealers meet the test criteria for VOC emissions of the AgBB (Committee for Health-related Evaluation of Building Products) for a healthy indoor climate.

! Tip:

Overview of thin layer coating/sealers: p. 44

Selecting a suitable thin layer coating/sealer for subfloor: p. 52



Special products

Special products such as Arturo Ballotini (for slip-resistant finishes) and Arturo Flakes (decorative element scattered into the wet layer) complete our product portfolio.

! Tip:

Overview of special products: p. 48



Overview of primers/scratch coat

Prior to using Arturo system components the current data sheets must always be consulted and instructions followed. Please request these or download them from www.arturoflooring.com.

System components

Name	Application/properties	Pack size
Arturo Epoxy Accelerator	Fast curing agent designed to accelerate the curing of the following Arturo epoxy primers/scratch coat: EP6200, EP6500, EP6950, EP6955, EP6960	<ul style="list-style-type: none"> • 1 kg • 25 kg
Arturo EP6200 Scratch Coat (2-C, EP)	Ready-made scratch coat for smoothing roughness, in the event of rough unevenness/higher layer thickness mixable with sand, AgBB (Committee for Health-related Evaluation of Building Products) certified in combination with Arturo PU self-smoothing floors	<ul style="list-style-type: none"> • 10 kg • 25 kg
Arturo EP6400 Primer (2-C, EP)	For electrically conducting floor systems	• 8 kg
Arturo EP6500 Primer (2-C, EP)	Multi-purpose primer, also for manufacturing scratch coat, EP mortar, as adhesion layer, at risk of moisture at the reverse side, contains no silicones or other surface active substances, AgBB (Committee for Health-related Evaluation of Building Products) certified in combination with Arturo PU self-smoothing floors	<ul style="list-style-type: none"> • 2.5 kg • 10 kg • 25 kg • 600 kg
Arturo EP6650 Multiprimer (2-C, EP)	Adhesion layer on existing coatings (e.g. interior tiles) and dense subfloors, under vapour permeable self-smoothing floors and coatings, water-dilutable	<ul style="list-style-type: none"> • 3.75 kg • 7.50 kg
Arturo EP6850 Skirting Primer (2-C, EP)	For skirtings on vertical surfaces	• 0.75 kg
Arturo EP6950 Primer (2-C, EP)	For increased residual moisture ($\leq 5\%$ CM) or for non-absorbent subfloors, contains no silicones or other surface-active substances, AgBB (Committee for Health-related Evaluation of Building Products) certified in combination with Arturo PU self-smoothing floors	<ul style="list-style-type: none"> • 5 kg • 10 kg
Arturo EP6955 Primer OS8 (2-C, EP)	For surface protection system OS8, at risk of moisture at the reverse side, contains no silicones or other surface-active substances, AgBB (Committee for Health-related Evaluation of Building Products) certified in combination with Arturo PU self-smoothing floors	• 23 kg
Arturo EP6960 Primer Special Purpose (2-C, EP)	For increased residual moisture ($\geq 5\%$ CM) or on oil-contaminated, cleaned surfaces, AgBB (Committee for Health-related Evaluation of Building Products) certified in combination with Arturo PU self-smoothing floors	• 10 kg



Tip:

Universal primer:
Arturo EP6500 –
for an optimal
preparation of
the subfloor



Suitable for the following floor systems

	HEAVY-DUTY FLOOR SYSTEMS	SLIP-RESISTANT OSB FLOOR SYSTEMS	CONDUCTING FLOOR SYSTEMS	ECONOMICAL THIN LAYER FLOOR SYSTEMS	DESIGN FLOOR SYSTEMS
Consumption, depending on the subfloor	Page 8	Page 14	Page 18	Page 22	Page 30
<ul style="list-style-type: none"> • Add approx. 7% booster to standard primer/scratch coat EG: 10 kg set EP6500 Primer: add 0,7 kg Arturo Epoxy Accelerator 	✓	✓	✓	✓	✓
<ul style="list-style-type: none"> • Approx. 500-1300 g/m²/mm 	✓		✓		✓
<ul style="list-style-type: none"> • Approx. 80-120 g/m² 			✓		
<ul style="list-style-type: none"> • Primer: approx. 200-350 g/m² • Scratch coat: approx. 500-1300 g/m²/mm 	✓		✓		✓
<ul style="list-style-type: none"> • Approx. 75-150 g/m² 	✓		✓	✓	✓
<ul style="list-style-type: none"> • Approx. 200-350 g/m² 	✓		✓	✓	✓
<ul style="list-style-type: none"> • Primer: approx. 200-500 g/m² • Moisture barrier: approx. 500-700 g/m² 	✓		✓	✓	✓
<ul style="list-style-type: none"> • 1.5 mm: 900 g/m² (each 450 g/m² EP6955 Primer and quartz sand 0.1-0.5 mm) • 2.5 mm: 1600 g/m² (each 800 g/m² EP6955 Primer and quartz sand 0.3-0.8 mm) Both systems fully gritted with quartz sand 0.3-0.8 mm 		✓			
<ul style="list-style-type: none"> • Primer: approx. 250-500 g/m² • Moisture barrier: 1. layer 500 g/m², 2. layer 250-350 g/m² 	✓		✓	✓	✓



Tip:

The ready-to-use
scratch coat:
Arturo EP6200



Overview of resin screeds, mortars and self-smoothing floors

Prior to using Arturo system components the current data sheets must always be consulted and instructions followed. Please request these or download them from www.arturoflooring.com.

System components

Name	Application/properties	Pack size
Resin screed		
Arturo EP1000 Resin Screed (3-C, EP)	EP-screed with mineral fillers, high chemical and mechanical resistance, for medium- to very heavy-duty, also suitable for making skirtings and upstands	<ul style="list-style-type: none"> • 24 kg • 72 kg
Arturo EP1200 Resin Screed (3-C, EP)	EP-screedmortar with coloured mineral fillers, high chemical and mechanical resistance, for medium duty, also suitable for making skirtings and upstands	• 74.25 kg
Arturo EP1250 Resin Screed (3-C, EP)	EP-screed with colourless mineral fillers, high chemical and mechanical resistance, for medium duty, also suitable for making skirtings and upstands	• 74.25 kg
Arturo EP1500 Repair Mortar (3-C, EP)	EP-mortar with mineral fillers for repairing damaged concrete, repair of edge breakouts, as backing of machines, steel constructions and railing bases, also suitable for making skirtings and upstands	• 10 kg
Arturo EP1851 Skirting Mortar (2-C, EP)	EP-mortar with mineral fillers, suitable for skirtings and upstands	• 10 kg
Self-smoothing floor		
Arturo EP2480 Self-smoothing Floor, explosion protection, (2-C, EP)	Carbon fibre electrical conducting self-smoothing floor for explosion-protected areas, contains no silicones or other surface-active substances	<ul style="list-style-type: none"> • 10 kg • 25 kg
Arturo EP2490 Self-smoothing Floor, ESD protection & cleanrooms (2-C, EP)	Carbon fibre free electrical conducting self-smoothing floor for ESD protection areas and cleanrooms, contains no silicones or other surface-active substances	<ul style="list-style-type: none"> • 10 kg • 25 kg
Arturo EP2500 Self-smoothing Floor (2-C, EP)	Heavy-duty standard EP-self-smoothing floor suitable for many industry sectors can be mixed and blinded with quartz sand, contains no silicones or other surface-active substances, suitable for the food industry	<ul style="list-style-type: none"> • 10 kg • 25 kg
Arturo PU2030 Self-smoothing Floor (2-C, PU)	Highly elastic, UV-stable PU design self-smoothing floor, AgBB (Committee for Health-related Evaluation of Building Products) certified	<ul style="list-style-type: none"> • 1 kg • 5 kg • 10 kg • 25 kg
Arturo PU2035 Self-smoothing Floor (2-C, PU)	Highly elastic, PU design self-smoothing floor, AgBB (Committee for Health-related Evaluation of Building Products) certified	<ul style="list-style-type: none"> • 1 kg • 5 kg • 10 kg • 25 kg
Arturo PU2060 Self-smoothing Floor (2-C, PU)	Elastic, PU design self-smoothing floor, AgBB (Committee for Health-related Evaluation of Building Products) certified, suitable for the food industry	<ul style="list-style-type: none"> • 1 kg • 5 kg • 10 kg • 25 kg

Suitable for the following floor systems

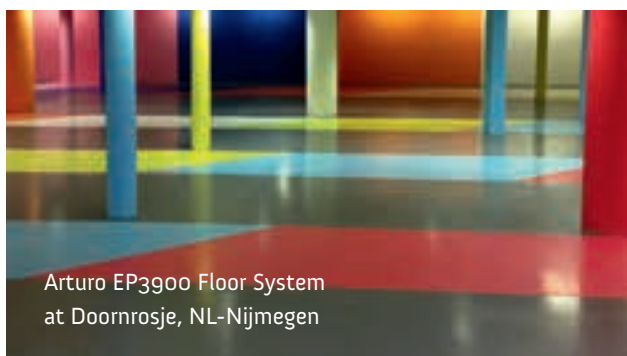
Consumption	Colour	HEAVY-DUTY FLOOR SYSTEMS Page 8	SLIP-RESISTANT OS8 FLOOR SYSTEMS Page 14	CONDUCTING FLOOR SYSTEMS Page 18	ECONOMICAL THIN LAYER FLOOR SYSTEMS Page 22	DESIGN FLOOR SYSTEMS Page 30
• Approx. 2 kg/m ² /mm	• Natural • Own colour chart	✓				
• Approx. 1.8 kg/m ² /mm	• Own colour chart	✓				
• Approx. 1.8 kg/m ² /mm	• Natural	✓				
• Approx. 2 kg/m ² /mm	• Mottled grey	✓	✓	✓	✓	✓
• Approx. 2 kg/m ¹ when skirting approx. 6 cm	• Light grey	✓	✓	✓	✓	✓
• Approx. 2.5 kg/m ²	• RAL, limited selection			✓		
• Approx. 3 kg/m ² , max. 3.75 kg/m ²	• RAL, limited selection			✓		
• 1 mm: approx. 1.6 kg/m ² • 2 mm: approx. 1.75 kg/m ² with quartz sand • 3 mm: approx. 1.85 kg/m ² with quartz sand	• RAL • Other on request	✓				
• Approx. 1.56 kg/m ² /mm	• RAL • Arturo Color Collection Trend colour chart • Other on request					✓
• Approx. 1.57 kg/m ² /mm	• RAL • Arturo Color Collection Trend colour chart • Other on request					✓
• Approx. 1.5 kg/m ² /mm	• RAL • Arturo Color Collection Trend colour chart • Other on request	✓				✓

Overview of coloured thin layer coatings and sealers

Prior to using Arturo system components the current data sheets must always be consulted and instructions followed. Please request these or download them from www.arturoflooring.com.

System components

Name	Application/properties	Pack size
Arturo EP3010 Floor Coating (2-C, EP)	Water vapour permeable, water-dilutable, for cement- and anhydrite-bonded subfloors, magnesite, tiling and asphalt, suitable for the food industry (Certificate of Compliance), AgBB (Committee for Health-related Evaluation of Building Products) certified	<ul style="list-style-type: none"> • 5 kg • 10 kg • 20 kg
Arturo EP3020 Floor Coating (2-C, EP)	Water vapour permeable, suitable as primer, scratch coat (fillable with sand) and as coating, for cement- and anhydrite-bonded subfloors, magnesite, tiling and asphalt, suitable for the food industry (Certificate of Compliance), AgBB (Committee for Health-related Evaluation of Building Products) certified	<ul style="list-style-type: none"> • 10 kg • 25 kg
Arturo EP3280 Floor Coating (2-C, EP)	Durable structured floor coating (highly structure)	<ul style="list-style-type: none"> • 15 kg
Arturo EP3400 Floor Coating (2-C, EP)	Anti-static, be applied directly to cement or anhydrite bound subfloors	<ul style="list-style-type: none"> • 7.5 kg
Arturo EP3800 Wall Coating (2-C, EP)	Water vapour permeable, water-dilutable for wall surfaces requiring special protection	<ul style="list-style-type: none"> • 5 kg • 10 kg
Arturo EP3900 Floor Coating (2-C, EP)	For cement, anhydrite and magnesite bound subfloors, suitable for the food industry (Certificate of Compliance), AgBB (Committee for Health-related Evaluation of Building Products) certified, also suitable as coating within Arturo EP2500 Floor System	<ul style="list-style-type: none"> • 3.75 kg • 7.5 kg • 15 kg • 25 kg
Arturo EP3910 Floor Coating (2-C, EP)	Slip-resistant, for cement, anhydrite and magnesite bound subfloors, suitable for the food industry (Certificate of Compliance), also suitable as coating within Arturo EP2500 Floor System	<ul style="list-style-type: none"> • 3.75 kg • 7.5 kg • 15 kg • 25 kg
Arturo PAS3790 Floor Coating (2-C, PAS)	Rapid hardening, UV-stable, on gritted EP subfloors, inside and outside use, suitable for the food industry (Certificate of Compliance)	<ul style="list-style-type: none"> • 5 kg • 10 kg
Arturo PU3320 Sealer (2-C, PU)	Water-dilutable, UV-stable, suitable for Arturo self-smoothing floors, AgBB (Committee for Health-related Evaluation of Building Products) certified in combination with Arturo PU self-smoothing floors, anti-slip possible	<ul style="list-style-type: none"> • 6.65 kg
Arturo PU7900 Sealer (1-C, PU)	Highly wear-resistant, UV-stable, suitable for Arturo self-smoothing floors, anti-slip possible	<ul style="list-style-type: none"> • 5 kg



Arturo EP3900 Floor System
at Doornrosje, NL-Nijmegen

Tip:

Robust, proven and quickly applied:
Arturo EP3900
Floor Coating



Suitable for the following floor systems

Consumption, depending on the subfloor	Colour	Optical appearance	HEAVY-DUTY FLOOR SYSTEMS	SLIP-RESISTANT OS8 FLOOR SYSTEMS	CONDUCTING FLOOR SYSTEMS	ECONOMICAL THIN LAYER FLOOR SYSTEMS	DESIGN FLOOR SYSTEMS
			Page 8	Page 14	Page 18	Page 22	Page 30
• Approx. 100-250 g/m ²	• RAL • Other on request	• Satin				✓	
• Approx. 100-250 g/m ² • Scratch coat: approx. 500-700 g/m ² /mm	• RAL • Other on request	• Semi-gloss				✓	
• Approx. 600-700 g/m ²	• RAL limited	• Gloss				✓	
• Approx. 200-300 g/m ²	• RAL limited	• Gloss				✓	
• Approx. 100-200 g/m ²	• RAL • Other on request	• Matt				✓	
• Approx. 200-300 g/m ² • Approx. 700-800 g/m ² for OS 8 System	• RAL • Other on request	• Gloss	✓	✓		✓	
• Approx. 200-300 g/m ²	• RAL • Other on request	• Gloss/structured				✓	
• Approx. 150-350 g/m ²	• RAL limited • Other on request	• Gloss				✓	
• Approx. 100-120 g/m ²	• RAL • Other on request	• Satin	✓			✓	✓
• Max. 120 g/m ²	• RAL • Other on request	• Semi-gloss/ structured	✓			✓	✓



Tipp:

Large variety of colours, UV-stable and easy to process: Arturo PU3320 Sealer



Overview of transparent sealers

Prior to using Arturo system components the current data sheets must always be consulted and instructions followed. Please request these or download them from www.arturoflooring.com.

System components

Name	Application/properties	Pack size
Arturo EP3950 Sealer (2-C, EP)	For mineral subfloors, blinded EP-floor covering (flakes), gritted EP-floors or be admixed with Arturo Ballotini, suitable for the food industry (Certificate of Compliance)	• 10 kg
Arturo EP7610 Sealer (2-C, EP)	Water vapour permeable, for EP self-smoothing floors, thin layer coatings, blinded EP-floor covering (flakes), as dust binder on mineral subfloors, suitable for the food industry (Certificate of Compliance), AgBB (Committee for Health-related Evaluation of Building Products) certified as dust binder, anti-slip possible	• 4 kg • 10 kg
Arturo EP7950 Sealer (2-C, EP)	For Arturo mortar floors	• 8 kg
Arturo PAS7790 Sealer (2-C, PAS)	Rapid hardening, UV-stable, on gritted EP subfloors, inside and outside use, suitable as top coat for Arturo PAS3790 Floor Coating	• 5 kg • 10 kg
Arturo PU7180 Sealer (1-C, PU)	Very highly wear-resistant protective top sealer, good UV stability, especially for Arturo PU2060 Self-smoothing Floor in the industrial area, AgBB (Committee for Health-related Evaluation of Building Products) certified in combination with Arturo PU self-smoothing floors, anti-slip possible	• 5 kg
Arturo PU7320 Sealer (2-C, PU)	Highly wear-resistant protective top sealer, good UV stability, especially for Arturo PU self-smoothing floor in the representative area, AgBB (Committee for Health-related Evaluation of Building Products) certified in combination with Arturo PU self-smoothing floors, anti-slip possible	• 6 kg
Arturo PU7750 Sealer (2-C, PU)	Highly wear-resistant protective top sealer, good UV stability, especially for Arturo PU self-smoothing floor in the representative area, AgBB (Committee for Health-related Evaluation of Building Products) certified in combination with Arturo PU self-smoothing floors, anti-slip possible	• 5 kg • 10 kg
Arturo PU7975 Sealer (1-C, PU)	Very highly wear-resistant protective top sealer, good UV stability, especially for Arturo PU2060 Self-smoothing Floor in the industrial area, anti-slip possible	• 5 kg



Tip:

Strong topcoat for epoxy resin floors: Arturo EP7610 Sealer



Suitable for the following floor systems

Consumption, depending on the subfloor	Colour	Optical appearance	HEAVY-DUTY FLOOR SYSTEMS Page 8	SLIP-RESISTANT OSB FLOOR SYSTEMS Page 14	CONDUCTING FLOOR SYSTEMS Page 18	ECONOMICAL THIN LAYER FLOOR SYSTEMS Page 22	DESIGN FLOOR SYSTEMS Page 30
• Approx. 200-300 g/m ²	• Transparent	• Gloss/lightly structured	✓			✓	
• Approx. 100-120 g/m ² • Approx. 100-200 g/m ² as dust-binding primer	• Transparent	• Extra matt	✓			✓	
• Approx. 300-500 g/m ²	• Transparent	• Gloss	✓				
• Approx. 150-350 g/m ²	• Transparent	• Gloss				✓	
• Max. 100 g/m ²	• Transparent	• Gloss/lightly structured	✓				
• Approx. 90-110 g/m ²	• Transparent	• Satin					✓
• Approx. 90-100 g/m ²	• Transparent	• Extra matt					✓
• Max. 100 g/m ²	• Transparent	• Satin/structured	✓				✓



Tipp:

Provides an attractive surface and gives additional protection:
Arturo PU7320 Sealer

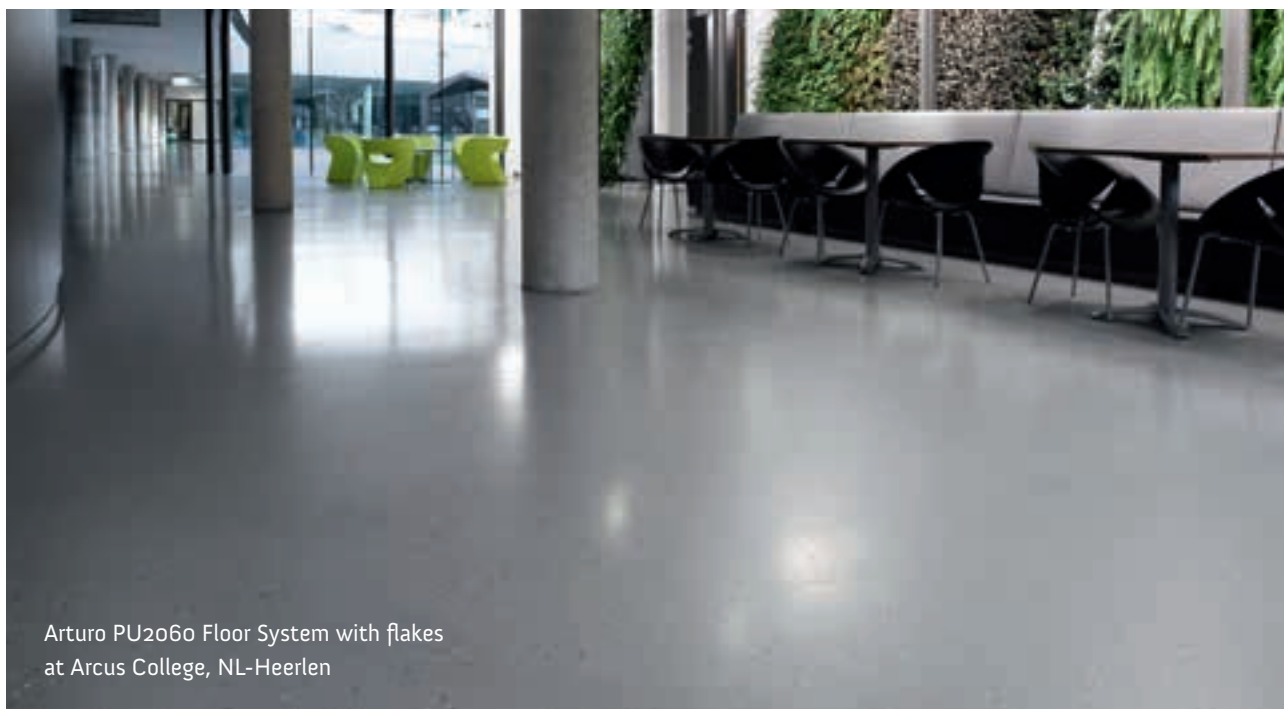


Overview of special products

Prior to using Arturo system components the current data sheets must always be consulted and instructions followed. Please request these or download them from www.arturoflooring.com.

System components

Name	Application/properties
Arturo Ballotini	Solid glass spheres ensuring a slip-resistant surface in combination with Arturo Sealers, different sizes
Arturo Cleaning Cloths	For the removal of dirt, oil, fat, paint and non-hardened resin on skin, floor and tools/equipment
Arturo Filler	Unique mix of sand and glass beads for filling Arturo products
Arturo Flakes	Colour flakes for a creative floor design, lightly or fully scattered onto the fresh top layer, large variety of colours, many standard mixtures, different sizes
Arturo Quartz Sand	Low-dust sand for filling and gritting various Arturo products, available in various grains (0.1-0.3 mm, 0.3-0.8 mm, 0.06-0.3 mm)
Arturo Slip-resistant Agent	Polypropylene granulate ensuring a slip-resistant surface in combination with Arturo PU Sealers
Arturo Slip-resistant Agent for Arturo EP3010 Floor Coating	Texturing Agent ensuring a slip-resistant surface in combination with Arturo EP3010 Floor Coating
Arturo Thixotropic Agent	Based on polyethylene with thickening effect to increase the stability and draining performance of Arturo PU and EP self-smoothing floors and thin layer coatings



Arturo PU2060 Floor System with flakes
at Arcus College, NL-Heerlen

Suitable for the following floor systems

Pack size	Colour	HEAVY-DUTY	SLIP-RESISTANT OS8	CONDUCTING	ECONOMICAL THIN LAYER	DESIGN
		FLOOR SYSTEMS	FLOOR SYSTEMS	FLOOR SYSTEMS	FLOOR SYSTEMS	FLOOR SYSTEMS
		Page 8	Page 14	Page 18	Page 22	Page 30
• 25 kg bag	• Transparent	✓			✓	✓
• Box of 4 buckets, 150 cloths per bucket	• White	✓	✓	✓	✓	✓
• 20 kg bag	• Beige	✓	✓	✓	✓	✓
• From 1 kg bucket/bag	• Own colour chart	✓			✓	✓
• 25 kg bag	• Beige	✓	✓	✓	✓	✓
• Bucket of 0.100 kg for Arturo Sealer PU7900 • Bucket of 0.1375 kg for Arturo Sealers PU7180, PU7750, PU7975, EP7610 • Bucket of 0.165 kg for Arturo Sealers PU3320, PU7320	• White	✓			✓	✓
• Bucket of 0.100 kg for Arturo EP3010 Floor Coating	• White				✓	
• 1 kg bucket	• White	✓				✓

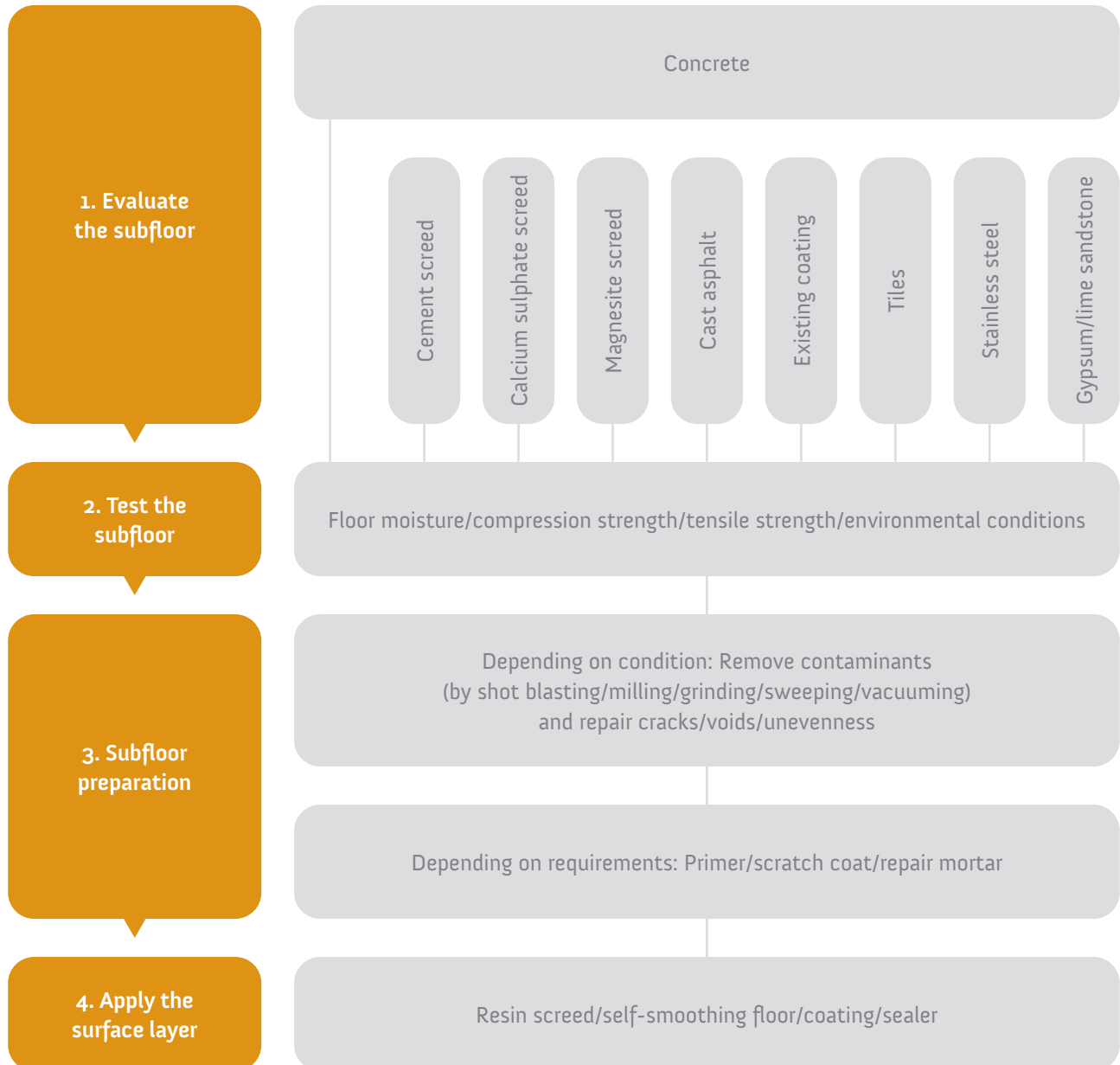


Arturo EP2500 Floor System with flakes
at canteen kitchen of Arcus College, NL-Heerlen

Testing and preparation of the subfloor

All floors consist of a subfloor layer and a surface layer. To ensure the floor is durable, these two layers must be effectively joined and optimally designed for the expected

mechanical and chemical loads at the relevant location. Correct subfloor evaluation, testing and preparation play a key role here.



Testing the subfloor – this is how it is done

Step 1 – Measure the floor moisture

The functioning of a floor coating depends on the moisture content of the subfloor. If the moisture content is too high, osmosis bubbles can form in the coating. The moisture content

is best measured using a CM unit (calcium carbide method). Cement-bound subfloors having more than 4% residual moisture require special systems for further coating.



Step 2 – Measure the compression resistance

The ability of the floor to withstand mechanical loads for a long period of time (compression resistance) is tested using the rebound hammer (DIN 4240) or the removal of drill cores

(DIN 1048). Depending on the loads, this must be at least 25-50 N/mm² after 28 days.



Step 3 – Measure the tensile adhesive strength

The tensile adhesive strength gauge measures the adhesion of the subfloor to the coating (at least 1.5 N/mm²). Simple tests

such as scratch and suction tests can also be performed.



Step 4 – Measure the environmental conditions

Use a hygrometer to measure the air/subfloor temperature,

the relative humidity and the dew point.



Preparing the subfloor – this is how it is done

Step 5 – Remove contaminants

The subfloor must be firm and free of grease, oil and any debris or layers that could reduce the adhesion. Remove loose layers and contaminants by suitable mechanical means (e.g. shot

blasting, milling or grinding). Fine dust must be removed using a vacuum cleaner.



Step 6 – Repair cracks/voids/unevenness

Voids and cracks must be filled. Larger repairs to gaps, holes and other unevenness must be carried out with Arturo EP1500

Repair Mortar or EP6200 Scratch Coat.



Product selection – a suitable primer/finish for every subfloor

The table indicate where a component can be applied directly to the subfloor.

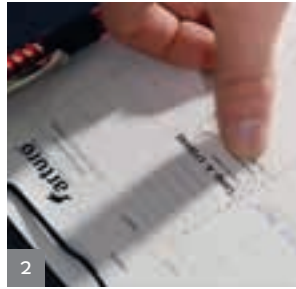
System components	Suitable for cement-bonded subfloors (concrete & cement screed)			Suitable for other subfloors						
	Dry	In contact with soil	Oily	Calcium sulphate screed	Magnesite screed	Cast asphalt	Existing coating	Tiles	Stainless steel	Gypsum/lime sandstone
Primers										
Arturo EP6200	✓			✓	✓		✓			
Arturo EP6500	✓	✓		✓	✓	✓	✓	✓	✓	
Arturo EP6650	✓	✓		✓	✓	✓	✓	✓		
Arturo EP6850	✓									✓
Arturo EP6950	✓	✓		✓					✓	
Arturo EP6955	✓	✓				✓				
Arturo EP6960	✓	✓	✓						✓	
Coloured coatings										
Arturo EP3010	✓	✓		✓	✓					
Arturo EP3020	✓	✓		✓	✓					
Arturo EP3280	✓									
Arturo EP3400	✓			✓						
Arturo EP3800	✓									✓
Arturo EP3900	✓			✓	✓		✓			
Arturo EP3910	✓			✓	✓		✓			
Arturo PAS3790	✓			✓			✓			
Transparent sealers										
Arturo EP3950	✓									
Arturo EP7610	✓	✓		✓	✓					
Arturo PAS7790	✓			✓			✓			



How to apply a resin floor



1 Evaluate and test the subfloor



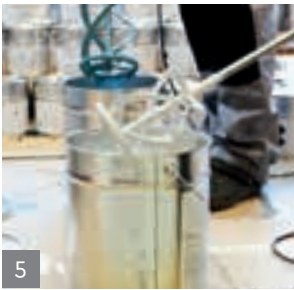
2 Record the environmental conditions



3 Prepare the subfloor (e.g. clean by shot blasting)



4 Apply a primer/scratch coat



5 Prepare the working place and the product components



6 Apply the self-smoothing floor



7 If desired, scatter flakes



8 Apply a top coat

Recommended tools/equipment

System components	Tools	Installation
Arturo primer	Brush, nylon roller and/or rubber wiper	Roll and brush
Arturo scratch coat	Smoothing trowel, double spatula or hard rubber wiper	Smoothing out
Arturo self-smoothing floor	Smoothing trowel, squeegee or notched spreader, spiked roller	Apply, aerate
Arturo thin layer coating/sealer	Brush, nylon roller, hard rubber wiper	Apply, roll cross-wise
Arturo resin screed	Draw box, floor trowel, power trowel	Apply, compact
Arturo pebble floor	Draw box, floor trowel	Apply, compact

All information is based on our practical experience. Prior to using Arturo system components the current data sheets must always be consulted and instructions followed. Please request these or download them from www.arturoflooring.com.

Ferfa guide to the selection of resin floors

Synthetic resin floorings can be divided into different types varying in thickness and surface finish:

Classification of synthetic resin flooring types

Type	Name	Description	Duty
1	Floor seal	Applied in two or more coats, generally solvent or water borne	• LD
2	Floor coating	Applied in two or more coats, generally solvent free	• LD/MD
3	High build floor coating	Applied in two or more coats, generally solvent free	• MD
4	Multi-layer flooring	Aggregate dressed systems based on multiple layers of floor coatings or flow-applied floorings, often described as "sandwich" systems	• MD/HD
5	Flow applied flooring	Often referred to as "self-smoothing" or "self-levelling" flooring and having a smooth surface	• MD/HD
6	Resin screed flooring	Trowel-finished, heavily filled systems, generally incorporating a surface seal coat to minimize porosity	• MD/HD



LD (light duty): light foot traffic, occasional rubber tyred vehicles

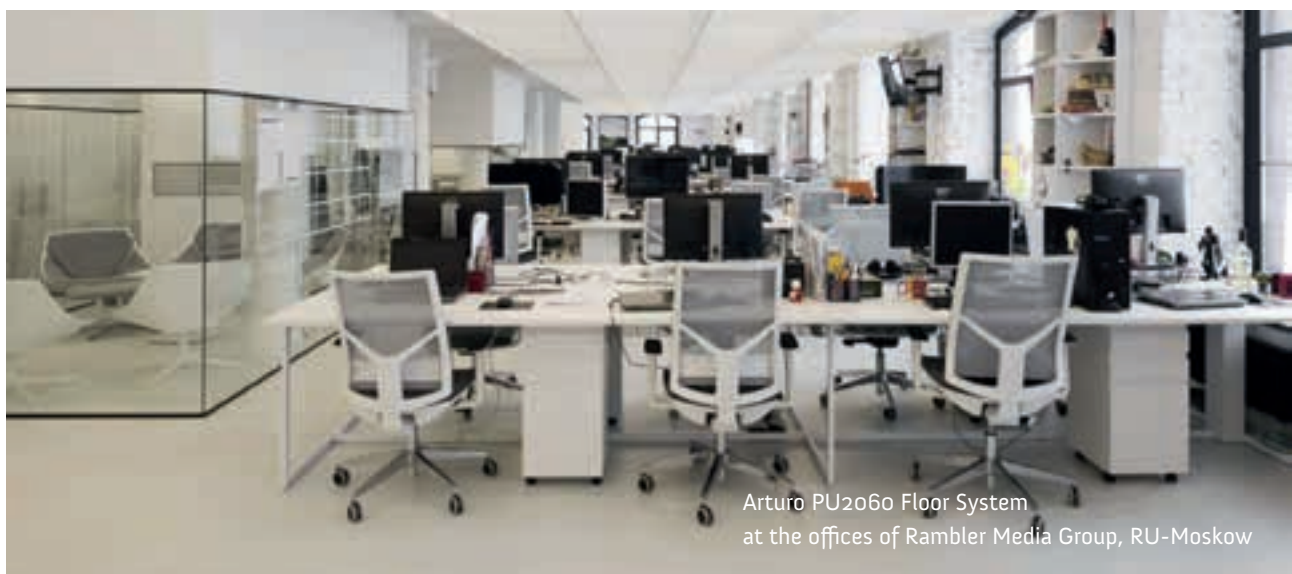
MD (medium duty): regular foot traffic, frequent fork lift truck traffic, occasional hard plastic-wheeled trolleys

HD (heavy duty): constant fork lift truck traffic, hard plastic wheeled trolleys, some impact

VHD (very heavy duty): severe heavily loaded traffic and impact

Source: www.ferfa.org.uk

Typical thickness	Arturo floor system
• up to 150 µm	<ul style="list-style-type: none"> • Arturo EP7610 Sealer (transparent, matt) • Arturo PAS7790 Sealer (transparent, gloss) • Arturo PU3320 Sealer (coloured satin, UV-stable) • Arturo PU7180 Sealer (transparent, gloss) • Arturo PU7320 Sealer (transparent, satin) • Arturo PU7750 Sealer (transparent, extra matt) • Arturo PU7900 Sealer (coloured, semi-gloss) • Arturo PU7975 Sealer (transparent, satin)
• 150 µm to 300 µm	<ul style="list-style-type: none"> • Arturo EP3010 Floor Coating (coloured, satin) • Arturo EP3020 Floor Coating (coloured, semi-gloss) • Arturo EP3400 Floor Coating (coloured, gloss) • Arturo EP3950 Sealer (transparent, gloss)
• 300 µm to 1000 µm	<ul style="list-style-type: none"> • Arturo EP3280 Floor Coating (coloured, gloss) • Arturo EP3900 Floor Coating (coloured, gloss) • Arturo EP3910 Floor Coating (coloured, slip-resistant, gloss) • Arturo PAS3790 Floor Coating (coloured, gloss)
• > 2 mm	<ul style="list-style-type: none"> • Arturo OS8 (DAdStBOS8, slip-resistant)
• 2 mm to 3 mm	<ul style="list-style-type: none"> • Arturo EP2480 Self-smoothing Floor (explosion protection) • Arturo EP2490 Self-smoothing Floor (ESD protection & cleanrooms) • Arturo EP2500 Self-smoothing Floor • Arturo PU2030 Self-smoothing Floor (UV-stable, LD) • Arturo PU2035 Self-smoothing Floor (LD) • Arturo PU2060 Self-smoothing Floor
• > 4 mm	<ul style="list-style-type: none"> • Arturo EP1000 Resin Screed • Arturo EP1200 Resin Screed • Arturo EP1250 Resin Screed



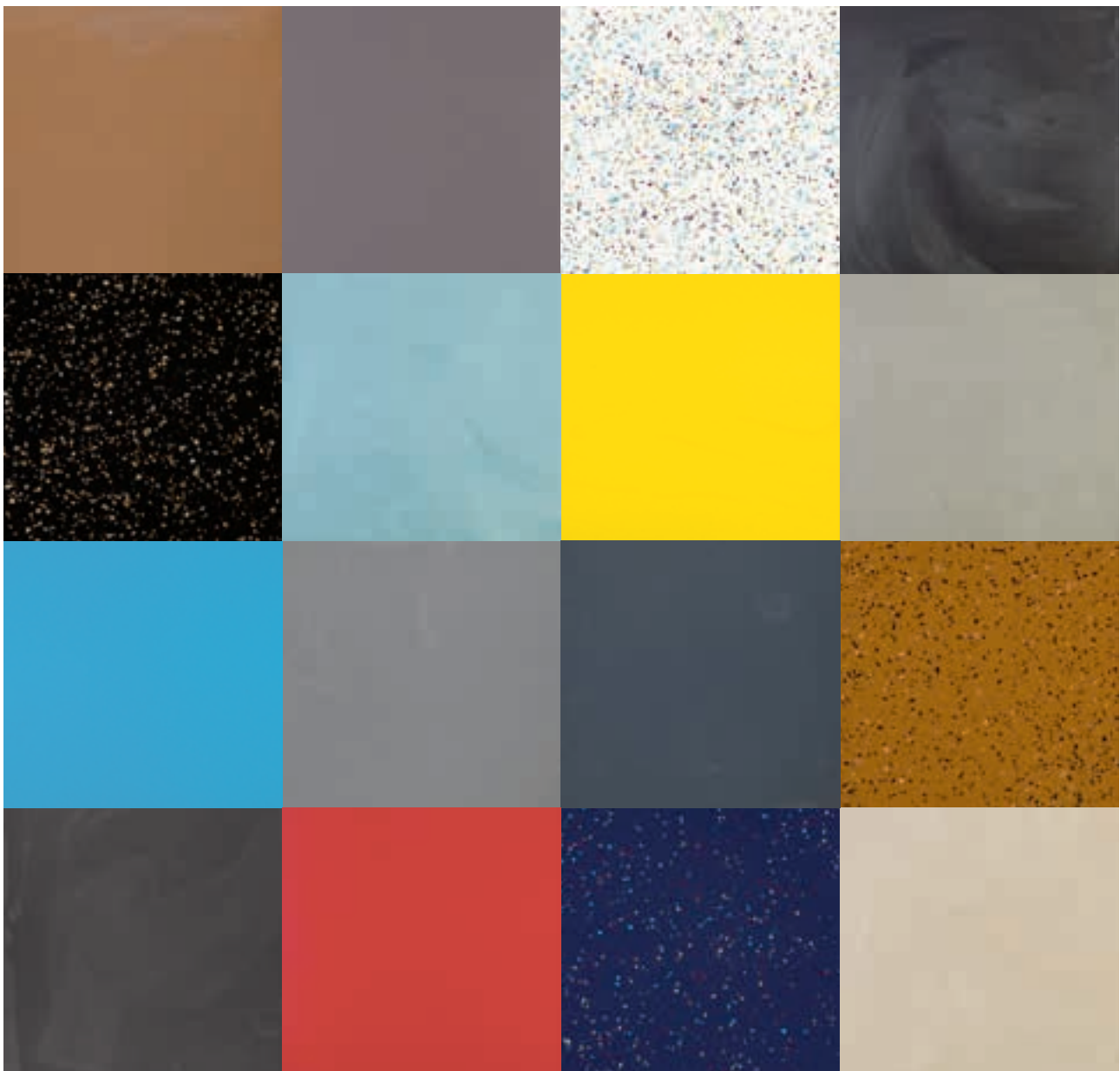
Arturo PU2060 Floor System
at the offices of Rambler Media Group, RU-Moskow

Colours

Colour evokes emotion and influences the ambience in a room and the moods of people. Arturo colours will give you a suitable ambience in which to work and live. We offer a wide selection of RAL, NCS, own colours and flakes. If you cannot find the colour you desire, our customer service will advise you whether that specific colour can be produced. Arturo floor systems can also be coloured according to the colour cards of other suppliers.

Tip:

Our current colour overviews can be found at www.arturoflooring.com. Also discover the Arturo Color Collection with 80 trendy colours at www.arturocollection.com or compose your own floor with flakes at www.floorconfigurator.com.



Cleaning and care



Arturo floor coatings are seamless, impermeable to liquids and easy to maintain. However, all floors require cleaning and care. Regular cleaning – ideally by a professional cleaning company – will keep the floor coating looking pristine and prolong your enjoyment of your chosen floor.

Tip:

Our current cleaning recommendations can be found at www.arturoflooring.com.



Assistance with your projects

Our technical advisers provide a comprehensive range of services to assist you with all flooring matters. We can assist with all stages of your project, from planning to final decisions. Based

on your requirements, our experts present the various options to you. In this way you always end up with the right floor, whether for a new project, renovation or modernisation.





© Marcus Nigseloh

Dental surgery topDentis, DE-Cologne



Warehouse Mala Verschluss-Systeme GmbH, DE-Bad Liebenstein



Hostel Netizen, RU-Moscow



Energy service provider Uniper, DE-Düsseldorf



Flowservice BV, NL-Hengelo



Unipart Group Showpiece HSS Fuel Cell Area, EN-Cowley, Oxfordshire



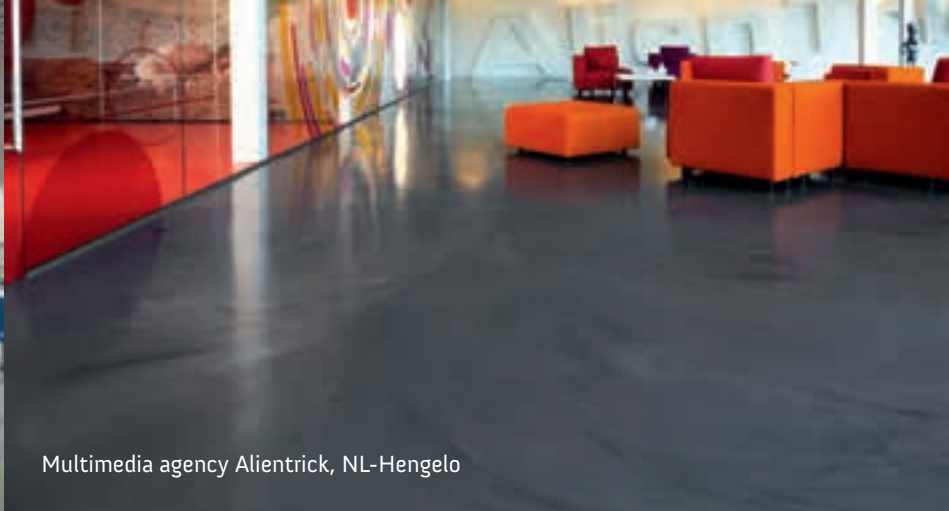
Fabergé Home Interiors, NL-Hengelo



Zosuuz Hairlab, NL-Haaksbergen



Coffee bar in Comcity Office Park, RU-Moscow



Multimedia agency Alientrick, NL-Hengelo



Dolfinarium, NL-Harderwijk



Enterprise Office House, CZ-Prague



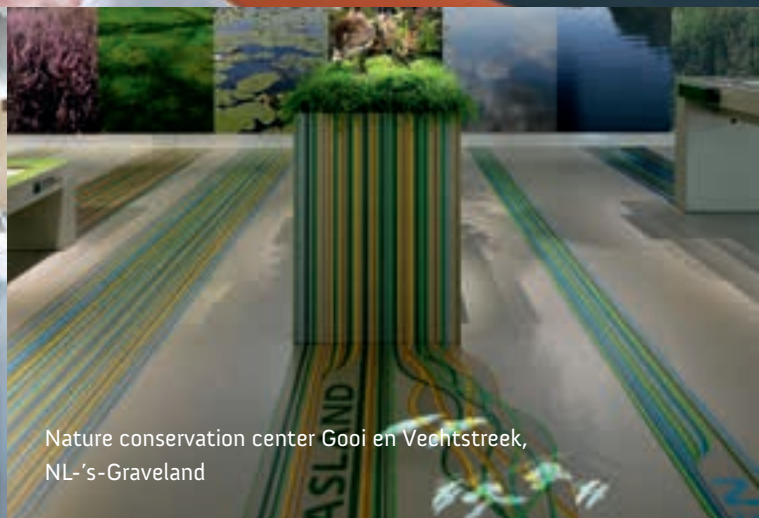
Logistics operator Pony Express, RU-Moscow



Underground parking Marsmanplein, NL-Haarlem



Furniture store Wohnwelt Fahrenbruck, DE-Bocholt



Nature conservation center Gooi en Vechtstreek, NL-'s-Graveland



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