CONCRETA SELF-SMOOTHING FLOOR

PRODUCT DESCRIPTION

Arturo Concreta is a cementitious, self-smoothing floor consisting of cement and colour pigment. Suitable for use as a decorative, aesthetic finish for cement and gypsum-bonded substrates.

AREA OF APPLICATION***

Suitable for use as a decorative, aesthetic finish for cement and gypsum-bonded substrates.

Arturo Concreta cementitious self-smoothing floor is particularly suitable for finishing floors in:

- Stores.
- Homes.
- Catering establishments.
- Offices.
- Showrooms.

Not recommended for wet areas.

PRODUCTFEATURES/BENEFITS

- Decorative resin flooring.
- High level of UV stability.
- Dust-free and easy to clean.
- Seamless.
- Self-smoothing.
- For indoor use only.
- Low chromate content in accordance with Directive (EC) No. 1907/2006 (REACH).
- EMICODE EC 1 R / very low emissions
- Natural appearance.

TEST/APPROVAL

- Classification and testing of the fire resistance according to BS EN 13501-1.
- GEV Emicode: EC 1 Plus.
- Tested according to AgBB.

PRODUCT DATA

Packaging size	Set: cement + pigment + water Cement: 20 kg Pigment: 1 pot per sack (weight varies) Water addition: 4,3 litres (to 20 kg cement)
Shelf life	Cement: approx. 12 months. Pigment: approx. 24 months
Colour	Dove, Fossil, Pebble, Rust, Sand, Shadow, Shell, Silver, Smoke, Steel

TECHNICAL DATA

Tensile strength (7d/21°C/60% r.h.)	> 10 N/mm²
Compressive strength (7d/21°C/60% r.h.)	> 40 N/mm²
Density	Approx. 1.20 kg/dm³
Consumption	Approx. 1.8 kg/m²/mm layer thickness. Recommended consumption: approx. 6.3 kg/m²
Pot life	Approx. 20 minutes*
Dust-dry	After approx. 6 hours*
Ready for foot traffic	After approx. 6 hours*
Recoatable	After approx. 24 - 48 hours*
Full mechanical resilience	After 3 days*
Chemically resistant	After 7 days*
Water quantity	Per sack of 20 kg cement: 4.3 litres of water.
Layer thickness	Approx. 3 – 20 mm (Recommended: approx. 3-4 mm)
Frost resistance	Yes**
Solids content	100%

Compatible with underfloor heating

UV-stable

No seams

Low maintenance and maintenance friendly

Classification of fire resistance

Low-emission

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SUBFLOOR

The substrate must be hard and solid, permanently dry, clean and free from cracks and substances that could impair the adhesion.

The monolithic concrete floor, Class C20/25 or C28/35, must be laid in accordance with the applicable NEN-EN 206-1, NEN 8005 and NEN 2747 standards and must satisfy at least flatness class 4.

The cement-bonded top floor coat must be applied in accordance with the applicable NEN 2741 and NEN 2747 standards and must satisfy at least flatness class 3 and quality class D30.

The anhydrite resin flooring must be applied in accordance with the applicable CUR-107 recommendations and must satisfy at least flatness table 2b and quality class Cw20 and Fw5.

The above standards are sufficient unless the client makes higher demands.

Cement and gypsum-bonded substrates must be at least 28 days old.

If the substrate has to be levelled before application, then always use UZIN NC 112 quick gypsum levelling compound for levelling. Never used cement-bonded levelling compounds under the Arturo Concreta system.

Residual moisture percentage:

Cement-bonded substrate: < 4 %

Gypsum-bonded substrate: < 1>

For other substrates, ask your technical-commercial consultant.

Attention:

Wood subfloors and platting material are not dimensionally stable. Signatures from the subfloor may still remain visible. Furthermore signatures can also occur with a bad prepared subfloor.

SUBFLOOR PREPARATION:

Remove cement skins and concrete residues by grinding and sanding. Roughen smooth and dense substrates (such as concrete surfaces) by dust-free blasting. Roughen anhydrite floors and any skin by blasting or sanding (depending on the skin adhesive strength). Treat contaminated substrates by chemical cleaning.

Then sand. After preparation, always clean the floor dust-free using an industrial vacuum cleaner. Fill saw cuts and holes using a suitable filler. Repair holes and cracks using Arturo EP1500 Repair Mortar*

Pretreat cement and gypsum-bonded substrates using Arturo EP6200 Scratch Coat*. Then sand these flush using Arturo Sand 0.3 - 0.8 mm. After curing of the scratch coat, roughen the sanded surface slightly and then remove the excess sand (glossy spots must no longer be visible! Precoat glossy spots using UZIN PE 280 Carbon Special Primer).

SYSTEM STRUCTURE

Primer/Scratch coat (depending on the substrate)

Arturo EP6200 Scratch Coat* (2-C, EP) sanded flush with Arturo Sand 0.3 - 0.8 mm.

Self-smoothing floor

Arturo Concreta Cement and colour pigment.

Impregnation Coat

Arturo AC6100 Impregnating Coat (1-C, AC)

Sealer

Arturo PU7750 Sealer* (2-C, PU, transparent, extra matt in two layers). Also available as anti-slip.

PROCESSING CONDITIONS

Minimum substrate temperature: 10°C and 3°C above the dew point.

Minimum material temperature: 15 °C.

Maximum material temperature: 25°C.

Room and processing temperature:

- Minimum: + 15°C.
- Maximum: + 25 °C.
- Optimum + 20°C.

Maximum relative humidity (RH): 75%.

Prevent draughts and direct sunlight.

These conditions apply both during processing and curing of the product.

PROCESSING INSTRUCTIONS

For proper processing of Arturo Concreta, first consult the relevant application instructions.

Attention

In view of possible differences in colour, we recommend that only products from the same batch are applied on the same floor. The batch number of the product can be found on the packaging.

The temperature of the material and the mixing water have an influence on the processing time and flow behaviour.

Due to the application method and the material properties, Arturo Concreta Resin Flooring can exhibit slight differences in colour and structure, bubbles, lumps and cracking. It is also possible, since Arturo Concreta Resin Flooring is a manually applied system, that processing marks such as trowel tracks are visible in the resin flooring.

Finishing of the cement-bonded resin flooring

The resin flooring must be finished with a top coat to protect the flooring. Before applying the top coat, impregnate the floor with Arturo AC6100 Impregnating Coat. For a matt surface finish, apply Arturo PU7750 Sealer extra matt* to the resin flooring using a roller.

Use an additional protection layer onder the castors (e.g. polycarbonate matting) for an intensive use of chair castors.

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.

DISCLAIMER

The information on this product sheet concerning the processing and application of this product is based on our experience with the product under standard conditions and with correct product storage and use. In practice, differences between equipment, subfloor and working conditions mean that no guarantee for a specific work result nor any liability, arising out of any legal relationship whatsoever, can be inferred either from the information on this data sheet or from any verbal advice given, unless caused by intent or gross negligence on our part. In this case the user must demonstrate that he has promptly forwarded to us in writing all necessary information for proper and effective evaluation of the circumstances. Users must test the products to check whether they are suitable for the intended application. We reserve the right to amend the information on technical data sheets. The intellectual property rights of third parties must be heeded. The most recent technical data sheet always applies. This can be requested from us or downloaded from www.arturoflooring.com. Our general terms and conditions of sale and delivery also apply.

PROTECTION OF THE WORKPLACE AND ENVIRONMENT

Contains cement low in chromate acc. Regulation (EC) No. 1907/ 2006 (REACH). Cement produces strong alkaline on reaction with water. Avoid contact with skin and eyes. In the event of contact, rinse immediately with water. In the event of skin or eye irritation, seek medical advice. When mixing wear a protective dust-mask. Use protective gloves. Presents no physiological or ecological risk when fully cured.

DISPOSAL

Where possible, collect product residues and re-use. Do not allow to get into drains, sewers or ground. Empty paper packaging is recyclable. Collect waste product, mix with water, 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.