Quartz-R
Deck

Product description

EPI Quartz-R Deck is a ready-to-use, very low-emission, water-based, synthetic-reinforced 2-component design plaster based on epoxy resin. EPI Quartz-R Deck is used for seamless and decorative finishing of highly stressed wall surfaces and lightly stressed floor surfaces in private residential areas and environments where an aesthetic concrete appearance is desired.

Product features

- seamless
- low shrinkage
- solvent-free and environmentally friendly
- easy to apply
- can be used on tiles
- wear-resistant
- increased UV stability

Application areas

- Wall and floor surfaces
- Decorative wall finishes
- Indoor applications

Colors

EPI Quartz-R Deck is available in a special color collection, other colors on request.

Packaging

EPI Quartz-R Deck is available in the following packaging unit;
EPI Quartz-R Deck, set 10 kg

- Quartz-R Deck, comp. A : 9 kg
- Quartz-R Deck, comp. B : 1 kg

Theoretical coverage

EPI Quartz-R Deck
Consumption: approx. 0.5 kg/m^2, per layer. At least 2 working steps must be carried out.

Technical Information

Density	~ 1.55 g/cm^3
Viscosity	~ 30000 mPa s ± 5000
VOC content EU-limit, cat. A/j	≤ 140 g/l
Giscode	RE 30
Solids	Approx. 75 %
Mixing ratio	Comp. A : B = 100 : 11.1
General application conditions	Material,- substrate,- and room temperature between 15°C and 25°C (at least +3°C above the dew point also during installation and curing).
Relative humidity	Maximum 75 % RH
Application time	Approx. 30 minutes at 20°C
Dust dry	Approx. after 8 hours at 20°C
Recoatable	After approx. 12 hours; apply the next coat within 24 hours
Mechanically loadable	After approx. 72 hours at 20°C and 65 % RH

Note: The above physical properties were measured in accordance with the referenced standards. Samples of the actual wall system, including binder and filler, were used as test specimens. All sample preparation and testing is conducted in a laboratory environment, values obtained on field applied materials may vary.

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Substrate preparation

In general, the substrate must fulfil the relevant standards with special reference to flatness, gradients, thickness, load bearing capacity and water permeability. Substrates to be coated have to be firm, dry, clean and free of loose and brittle particles and substances that impact the adhesion such as oils, grease, paint or other contaminations. Concrete substrates must be dry and a require a minimum cohesion strength of at least 1.5 N/mm^2 and a minimum compressive strength of at least 25 N/mm^2. Existing joints in the concrete surface must be performed with a joint profile. Depending on the substrate a mechanical preparation (e. g. vacuum blasting or diamond grinding) is recommended for a good adhesion.

Residual moisture tolerance

Mineral substrates must always be provided with a vapor barrier and must not exceed 4 % decreasing residual moisture content measured by the Calcium Carbide method, which corresponds to maximum 75 % relative humidity according to ASTM F2170. If using the calcium chloride test, the maximum allowable vapor emissions is 4.0 lbs. as per ASTM F1869. For an hydrite substrates may contain a maximum of 0.3 % decreasing residual moisture content before the system can be applied.

Work Safety Precautions

Before using the products, the user must read the associated, current Material Safety Data Sheets (MSDS). The MSDS provides information and instructions for the safe use, handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety related data. Please refer to the Material Safety Data Sheets for detailed safety instructions for use of the use of personal protective equipment during the processing of the materials. The Safety Data Sheets have been drawn up in accordance with the latest European legislation.

Sealing of damp / wet rooms

In some countries, damp / wet rooms must be prepared or sealed in accordance with the standard prior to coating work. Please observe the applicable country-specific standards (e.g. DIN EN 13318 or DIN 18534).

Application EPI Quartz-R Deck

General:

- Before installation, always check all relevant documentation and check that all components are present in the required quantities.
- Large temperature differences should be avoided as this can adversely affect the end result.
- The area must be wind and watertight: avoid drafts and penetration of moisture, dust, water, etc..
- Preferably remove doors that have no free space. Protect walls, columns and walls from splashes.
- Water-repellent and/or waterproofing details should be incorporated into the substrate if the system is to be used in wet rooms.

Primer / levelling layer:

Prior to the application of the EPI Quartz-R Deck, the substrate should be primed in combination with EPI Quartz-R Base.

Wall surfaces:

Prior to the application of the EPI Quartz-R Deck, the surface must be primed with EPI Primer Aquapox-N and evenly sprinkled or blown in with fire-dried quartz sand of grain size Ø 0.1 - 0.5 mm (consumption: approx. 0.2 kg/m^2). It is also possible to add approximately 10% fire-dried quartz sand to the primer and apply it "over grain" to achieve a rough surface for EPI Quartz-R Deck. If the surface needs to be leveled, a layer of EPI Quartz-R Base can be applied as a base layer to achieve a sufficiently smooth surface. See the product information sheet for more information.

After the primer and/or EPI Quartz-R Base has hardened, it can be finished with 2 layers of EPI Quartz-R Deck.

Note: The base coat is important and has a major impact on the appearance of the end result.

Floor surfaces:

Prior to the application of the EPI Quartz-R Deck, the surface must be provided with EPI Primer Aquapox-N, which is evenly sprinkled with fire-dried quartz sand with grain size Ø 0.1 - 0.5 mm (consumption: approx. 0.2 kg/m^2). It is also possible to add approximately 10% fire-dried quartz sand to the primer and apply it "over grain" to create a rough surface for EPI Quartz-R Base. Then apply a layer of EPI Quartz-R Base as a base layer, see the product

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information sheet for more information.

After the Quartz-R Base has hardened, it can be finished with 2 layers of EPI Quartz-R Deck.

Note: The base coat is important and has a major impact on the appearance and performance of the end result.

Application EPI Quartz-R Deck

- Always mix complete units!
- Step 1: Thoroughly mix components A and B together for about 2 minutes with a suitable mixer to a uniform homogeneous material, with attention to mixing on the bottom and on the edges.
- Pour the mixture into a clean container and mix thoroughly again. for about 1 minute.
- Step 2: Immediately after mixing, apply the material to the prepared substrate using a suitable smoothing trowel in the appropriate layer thickness "over grain".

Attention!: During application and curing, ensure sufficient ventilation without draughts to remove evaporating water. Excessively high substrate and ambient temperatures as well as a relative humidity < 50 % lead to very fast drying.

Topcoat / sealer:

After EPI Quartz-R Deck has cured, the surface must be sealed with 2 layers of EPI Hardtop 200 T WA/PU
2-layers: Apply 1st layer with approx. 60 - 80 g/m^2 crosswise and finish-roll in one direction.
After approx. 16 hours, apply the 2nd layer with approx. 60 - 80 g/m^2 crosswise and finish-roll in one direction. See EPI Hardtop 200 T WA/PU product data sheet for more information.

Transport and storage conditions

Store all components in closed packaging, away from the ground. Temperature between +15°C and +25°C. Dry room, avoid direct sunlight. Protect liquid components against frost (also during transport).

Shelf life

Component A: 6 months from production date
Component B: 6 months from production date

Cleaning tools

Clean all tools and equipment immediately after use with scouring pads and warm, soapy water or mineral spirits. Cured material will require mechanical means of removal.

Waste

Attention! Too much residual material in the packaging can become hot due to an exothermic reaction and cause smoke nuisance. Therefore never leave more than 100 grams of mixed product in the packaging and place the packaging in a safe and well-ventilated place. If there is more residual material, add a generous amount of sand to inhibit the exothermic reaction.

CE-marking

The harmonized European standard EN-13813:2002 applies to this synthetic resin flooring material, please refer to the Declaration of Performance for more information.

VOC / Directive 2004/42/CE

EU limit value for the product (category AII / j / type WB) in ready-to-use condition: max. 140 g/l (2010). This product contains < 140 g/l VOC.

EPI Quartz-R Deck, revision date 05/07/2024
EPI-Synthetic Surface Materials B.V. applies the quality control system in conformity with NEN- ISO 9001 / 14001. This means that the products delivered meet the product and quality specifications of this system. Advice given by us with regard to the technical application, whether orally, in writing, or by means of tests, is given to our best knowledge, however without obligation, also with regard to possible protected rights of third parties. This does not relieve the applicator/ user of the obligation to check the products supplied by us as to their suitability for the envisaged aims. The application, use and wear of the products take place beyond our control. Therefore they are your own responsibility. For all claims our own responsibility will be limited to the value of the goods supplied by us and used by you. It is understood that we guarantee the good quality of our products, all this in accordance with the standards referred to in our terms and conditions of sale and supply. All orders are executed under the latest terms and conditions of sale and supply. Users must always consult the latest edition of the product and material safety data sheet before using the relevant product. Copies hereof are made available upon request. EPI-Synthetic Surface Materials B.V. retains the right to alter product specifications and product properties.