



Photo: BARiT

BARiT PHARMA-TERRAZZO | Clean Room Floor

Quarantine Station, Tierheim Stuttgart



Photo: BARiT

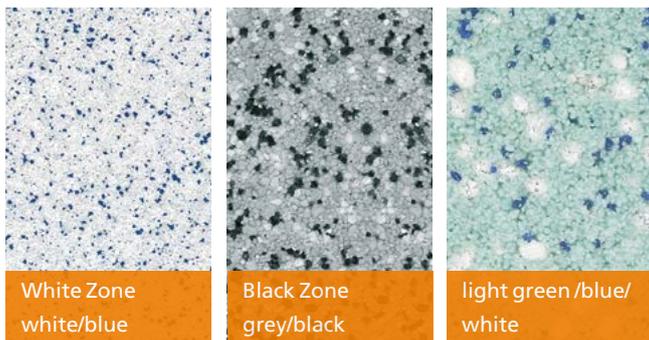
Krankenhaus La Colline, Genf

DEFINITION AND PURPOSE

A jointless and non-porous floor coating offers hygienic and microbacterial security. For this purpose, BARiT has developed PHARMA-TERRAZZO which consists of waterwhite epoxy resin and granulates coated colourfast with polyurethane resin. An 8- 10 mm thick layer thereof into be integrated. Some finish allows, moreover, to walk thereon without slipping.

Quick Info

- jointless
- in line with GMP and FDA for classes B, C and D
- non-porous
- aesthetic
- antiskid to BGR 181 R9
- chemical resistance
- mechanical resistance
- almost no abrasion
- easy cleaning and disinfection



APPEARANCE

The ideal starting point for aesthetic appearances, the product expertise that is the hallmark of BARiT has always been greatly valued. The timeless design of the PHARMA TERRAZZO is accented by the quality of the granules. A separation of production areas into black, gray and white zones is just as natural as specialized granules for areas over 500 m².

FEATURES

PHARMA-TERRAZZO is made of water-clear, epoxy resin and polyurethane coated colorfast granules and is installed in a layer 8 - 10 mm thick. In addition, its finish provides for anti-slip movement and easy decontamination.

The synthesis of both high-quality materials and a professional laying technique provides for a surface, which is equipped with good mechanical and chemical resistance. The structure of PHARMA TERRAZO ensures high resistance to wear. With direct bonding to the underlying surface, it withstands both static and dynamic loading and unloading and maintains, even with forklift traffic, a low abrasion.

PHARMA TERRAZZO meets the requirements set for surface cleanliness in accordance with VDI 2083, Sheet 4, as well as for the FDA and GMP. The seamless and non-porous surface of PHARMA TERRAZO guarantees sterility and easy cleaning and disinfection. For this purpose we offer BARiT Cleaner, which is specifically designed to clean and care for our products.

The durability of this surface is based on the entire underlying structure. To install PHARMA-TERRAZZO correctly, BARiT's services include the installation of the subflooring as well as the drainage system with sterile floor drains.

TYPE	PHARMA-TERRAZZO
Binding agent	EP-resin
Fillers	granulate
Solid matters	100 %
Flash point	> 100 °C
Consumption/m ²	2 kg/mm
Grain	BARiT card of grains
Grade of gloss	silk gloss or mat
Fire behaviour DIN EN 13501-1	Bfl-s1, hardly inflammable
Bending tensile strength DIN 1164**	> 10 N/mm ²
Compression strength DIN 1164**	> 40 N/mm ²
Adhesive pull strength DIN EN 24624	> 2 N/mm ²
Light-fastness	conditionally resisting to UV
VOC Emission	Meets the requirements of AgBB
Anti-slip Class DIN 51 130	R9, R11, R12
Barefoot Suitability DIN 51097	B and C
Temperature resistance	100 °C temporarily -30 °C bis +70 °C consistently
Chemical resistance	to resistance list and self test
Working under conditions of:	
air humidity	40 - 85%
residual moisture of the ground	< 3 %
ground temperature min.	18 °C
ground temperature max.	22 °C
Curing time at 20°C:	
not sticky	after 12 hours
walking admissible	after 16 hours
final hardness	after 7 days
Mechanical stability	after 7 days
Cleaning and Disinfection	validated with test results



Round Stainless steel drain embedded in urine resistant PHARMA TERRAZO

** with prism method - according to AGI Worksheet A 81 and BEB worksheets KH 5

* according to cleaning and care instructions



Photo: BARIT

BARiT ATEX-TERRAZZO, electrically conductive | Clean Room Floor | Kinderklinik Aschau



Connection Surgery Base

Photo: BARIT

DEFINITION AND PURPOSE

For elimination of electrostatic charges, BARiT has developed the conductive ATEX-TERRAZZO. Some consists of waterwhite epoxy resin conductive admixtures and granulates coated colourfast with polyurethane resin. A 7 mm thick layer of said TERRAZZO is to be integrated.

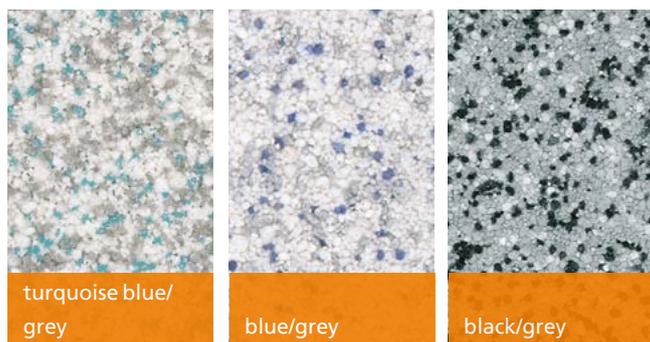
Quick Info

- conductiv to DIN EN 1081 between $10^4 \Omega$ and $10^6 \Omega$
- jointless, non porous
- aesthetic
- antiskid to BGR 181 R9
- mechanical stability
- chemical resistance
- decontaminatable
- almost no abrasion
- easy cleaning and disinfection
- according to ATEX directive



Lonza, Visp, Schweiz

Photo: BARIT



TYPE	ATEX-TERRAZZO
Binding agent	EP-resin
Fillers	special granulate
Solid matters	99 %
Flash point	> 100 °C
Consumption/m ²	2 kg/mm ²
Grain	BARiT card of grains
Grade of gloss	silk gloss or mat
Fire behaviour DIN EN 13501-1	Bfl-s1, hardly inflammable
Bending tensile strength DIN 1164**	> 10 N/mm ²
Compression strength DIN 1164**	> 40 N/mm ²
Resistance to earth DIN EN 1081	10 ⁴ – 10 ⁶ Ω
Adhesive pull strength DIN EN 24624	> 1,0 N/mm ²
Light-fastness	conditionally good resisting to UV
Temperature resistance	-30 °C to +70 °C
Chemical resistance	to resistance list and self test
Ease of decontamination according to DIN 25415, Part 1	excellent
Working under conditions of:	
air humidity	40 - 85%
residual moisture of the ground	< 3 %
ground temperature min.	18 °C
ground temperature max.	22 °C
Curing time at 20°C:	
not sticky	after 12 hours
walking admissible	after 16 hours
final hardness	after 7 days
Mechanical stability	after 7 days
Cleaning	BARiT Cleaner*

** with prism method - according to AGI Worksheet A 81 and BEB worksheets KH 5

* according to cleaning and care instructions

ATEX-TERRAZZO is a functional floor that supports the electrical conductivity. Due to application of the coating, ATEX TERRAZZO may obtain variations, accompanied by color shadowing and shimmering. Based on the material used, it is not always possible to avoid clouding in the color.

APPEARANCE

The electrically conductive BARiT ATEX TERRAZZO can be installed with blue / white, black / gray or purple / white granules. Despite this surface's conductive additives, it maintains a bright and appealing look that is as enjoyable for a cleanroom production area just as much as in an operating room.

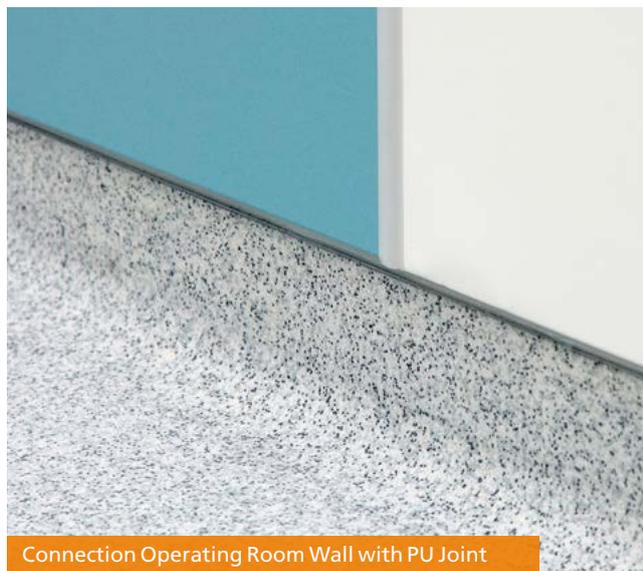
Due to the conductive additives, ATEX TERRAZZO has a cloudy, iridescent and metallic character to the surface.

FEATURES

The ATEX-TERRAZZO is made of water-clear, epoxy resin and polyurethane coated colorfast granules and is installed in a layer 7 mm thick. Measured according to DIN EN 1081, the discharge resistance for ATEX TERRAZZO lies between 10⁴ Ω and 10⁶ Ω. The synthesis of both high-quality materials and a professional laying technique provides for a surface, which is equipped with good mechanical and chemical resistance.

The structure of ATEX TERRAZZO ensures high resistance to wear. For mobile operating tables or forklift traffic, the surface maintains low abrasion. Pressure strength along with impact strength for the coating is high. Application to walls as well as operating tables is dense without any open pockets or voids.

The seamless and non-porous surface of ATEX TERRAZZO allows for easy cleaning and disinfection. For this purpose we offer BARiT Cleaner, which is specifically designed to clean and care for our products. The coating does not need to be initially treated.



Connection Operating Room Wall with PU Joint



Photo: BARiT

BARiT ATEX-COATING, electrically conductive | Clean Room Floor

Hybrid-OP, Universitätsklinikum Ulm



Photo: BARiT

Frauenklinik, Freiburg

DEFINITION AND PURPOSE

The conductive BARiT-ATEX-COATING consist of two-components systems based on solvent-free epoxy and/or polyurethane resins packed with mineral fillers and inorganic pigments. Layers of 1.5 to 2 mm are to be applied.



Photo: mtp Architekten, Frankfurt

Connection to Partition, DKl, Darmstadt

Quick Info

- conductiv to DIN EN 1081 between $10^4 \Omega$ and $10^6 \Omega$
- jointless
- in mat surface antiskid toBGR 181 R9
- mechanical stability
- chemical resistance
- almost no abrasion
- easy cleaning and disinfection



APPEARANCE

ATEX POWER and ATEX ELASTIC can be installed in a matte or glossy finish according to the BARiT color chart. Specialized colors are available for areas over 500 m² on request.

FEATURES

BARiT Flooring - Type: ATEX POWER, is a two-component system based on a solvent-free, epoxy resin, enriched with mineral fillers and inorganic pigments. Measured according to DIN EN 1081, the discharge resistance lies between 10⁴ Ω and 10⁶ Ω.

BARiT Flooring - Type: ATEX ELASTIC, is a flexible two-component system based on a solvent-free, polyurethane resin, enriched with mineral fillers and inorganic pigments. Measured according to DIN EN 1081, the discharge resistance lies between 10⁴ Ω and 10⁶ Ω. The elasticity of the coating provides good dampening properties that also makes standing and walking on this surface extremely comfortable.

The use of high quality materials and a professional laying technology ensure that this electrically conductive coating is resistant against abrasions and chemicals.

ATEX POWER and ATEX-ELASTIC are resistant to a variety of alkalis, diluted acids, salt solutions, mineral oils, as well as lubricants and fuels. The flooring's installed thickness is 1.5 - 2.5 mm. A matte finish allows for non-slipping movement.

The seamless surface ensures hygienic protection as well as a sterile environment. The dense surface is waterproof. The seamless and non-porous surface can be cleaned and disinfected efficiently and economically. Both coatings do not need to be initially treated.

For this purpose we offer BARiT Cleaner, which is specifically designed to clean and care for our products.

TYPE	ATEX-COATING POWER/ELASTIC
Binding agent	2-K-EP-resin / 2-K-PUR-resin
Fillers	inorganic/inert
Solid matters	99 %
Flash point	> 110 °C / > 100 °C
Consumption/m ²	ca. 1,4 kg/mm / ca. 1,4 kg/mm
Colour shade	BARiT card of colours
Grade of gloss	gloss or mat with finish
Fire behaviour DIN EN 13501-1	Bfl-s1, hardly inflammable
Bending tensile strength DIN 1164**	> 10 N/mm ²
Compression strength DIN 1164**	> 40 N/mm ²
Resistance to earth DIN EN 1081	10 ⁴ – 10 ⁶ Ω
Adhesive pull strength DIN EN 24624	> 1,0 N/mm ²
Light-fastness	conditionally resisting to UV
Temperature resistance	-20 °C to +70 °C
Chemical resistance	to resistance list and self test
Working under conditions of:	
air humidity	< 75 % / < 80 %
residual moisture of the ground	< 3 %
ground temperature min.	15 °C
ground temperature max.	22 °C
Curing time at 20°C:	
not sticky	after 6 hours
walking admissible	after 16 hours
final hardness	after 7 days
Mechanical stability	after 7 days
Cleaning	BARiT Cleaner*

** with prism method - according to AGI Worksheet A 80 and BEB worksheets KH

* according to cleaning and care instructions



Channel with Stainless Steel Wall Connection



Photo: BARiT

BARiT POWER | Clean Room Floor

Steri, Universitätsklinikum Ulm



Photo: BARiT

Steri, Universitätsklinikum Ulm

DEFINITION AND PURPOSE

The POWER coating having been developed to assure stability under mechanical and chemical loads consists of a two-components system based on solvent-free epoxy resin packed with mineral fillers and inorganic pigments. The mechanical stability of this coating gets increased by addition of Quarzit. The POWER coating resisting particularly well to compression.

Quick Info

- jointless
- antiskid BGR 181 R9
- mechanical resistance
- chemical resistance
- almost no abrasion
- easy cleaning and disinfection



TYPE	POWER
Binding agent	2-K-EP-resin
Fillers	inorganic/inert
Solid matters	100 %
Flash point	> 100 °C
Consumption/m ²	1,6 kg/mm
Colour shade	BARiT card of colours
Grade of gloss	gloss or mat with finish
Fire behaviour DIN EN 13501-1	Cfl-s1, hardly inflammable
Bending tensile strength DIN 1164**	> 10, N/mm ²
Compression strength DIN 1164**	> 40, N/mm ²
Adhesive pull strength DIN EN 24624	≥ 1,0 N/mm ²
Light-fastness	with finish conditionally resisting to UV
VOC Emission	Meets the requirements of AgBB
Anti-slip Class DIN 51130	R9, R11, R12
Temperature resistance	120 °C temporarily 40 °C consistently
Chemical resistance	to resistance list and self test
Working under conditions of:	
air humidity	40 - 85%
residual moisture of the ground	< 3 %
ground temperature min.	18 °C
ground temperature max.	25 °C
Curing time at 20°C:	
not sticky	after 8-10 hours
walking admissible	after 24 hours
final hardness	after 7 days
Mechanical stability	after 7 days
Cleaning	BARiT Cleaner*

** with prism method - according to AGI Worksheet A 81 and BEB worksheets KH 5

* according to cleaning and care instructions

APPEARANCE

BARiT RESIN FLOORING - Type: POWER, can be installed with a matte or satin finish based on the BARiT color chart. Specialized colors are available for areas over 500 m² on request. However, industrial flooring does not have to always look neutral and sober. Markers may be useful as indicators for escape routes or restricted zones.

FEATURES

Die BARiT RESIN FLOORING - Type: POWER is a two-component epoxy system based on a solvent free, epoxy resin, enriched with mineral fillers and inorganic pigments. Adding quartzite to the mixture increases the mechanical stability for this coating.

The structure of the flooring and a proper laying technique ensure a surface with low abrasion, which is equipped with good mechanical and chemical resistance. Likewise, BARiT KH FLOORING is resistant to a variety of alkalis, diluted acids, salt solutions, mineral oils, as well as lubricants and fuels. The flooring can be installed with a thickness of 2 - 3 mm. For temperature exposure, this flooring can handle 120 °C temporarily, 40 °C consistently.



Smooth Channel in a Sterile Area with Skirting Protection



Photo: BARIT

BARiT ELASTIC B 65 | Clean Room Floor

Augenlinik Vogelsang, Esslingen



DEFINITION AND PURPOSE

The elastifying BARIT COATING type ELASTIC 665 consists of a two-components system based on solvent-free polyurethane resin packed in mineral fillers and inorganic pigments. ELASTIC 665 layers of 2-3 mm thickness are to be applied.

Quick Info

- bridging over cracks
- jointless
- antiskid with mat surface to BGR 181 R9
- mechanical and chemical resistance
- almost no abrasion
- easy cleaning and disinfection

Augenlinik Vogelsang, Esslingen

Photo: BARIT



APPEARANCE

BARiT-ELASTIC B 65 can be installed with a matte or satin finish based on a selection from the BARiT color chart.

Qualitative benefits such as high-quality color stability and intensity characterize ELASTIC B 65 in its creative diversity. It is available in a large color spectrum of RAL colors according to BARiT color charts. A matte surface with slip-resistance class R 9 provides for sure-footed walking.

Specialized colors are available for areas over 200 m² on request.

FEATURES

ELASTIC B 65 is a two-component, low-emission, solvent-free, plasticizer-free, polyurethane resin. Excelling in factors for „Building green“ this surface coating has achieved 7.5 out of a possible 10 points for LEED and DGNB in environmental quality. It can be installed on top of calcium-sulfate based false and subflooring, cement as well as anhydrite flooring, and especially on heated flooring.

The synthesis between professional laying technology and the quality of the material provide for a low abrasion surface that offers good mechanical strength. The coating is installed with a thickness of 2 – 3 mm. ELASTIC B 65 has a high chemical resistance against acids and alkali. The dense surface is water-repellent, dirt resistant and can be easily cleaned and disinfected. In particular, regular recurring or replenishing maintenance cleanings are not necessary. The surface does not need to be initially treated.

For temperature exposure, this coating can handle 120 °C temporarily, 40 °C consistently.

By incorporating a special rubber layer, ELASTIC B 65 can be converted into a soft-sound coating. This coating has been optimized to reduce noise levels and facilitates long and pain-free walking and standing, ideal for research laboratories.

TYPE	ELASTIC B 65
Binding agent	2-K-PUR-resin
Flash point	> 100 °C
Consumption/m ²	1,4 kg/mm
Colour shade	BARiT card of colours
Grade of gloss	gloss/silk gloss/mat
Fire behaviour DIN EN 13501-1	Cfl-s1, hardly inflammable
Bending tensile strength DIN 1164**	elastic
Compression strength DIN 1164**	elastic
Adhesive pull strength DIN EN 24624	> 1,0 N/mm ²
Light-fastness	with finish conditionally resisting to UV
DGNB / LEED	declaration 7,5 point
VOC Emission	Meets the requirements of AgBB
Anti-slip Class DIN 51130	R9, R11, R12
Temperature resistance	120 °C temporarily 40 °C consistently
Chemical resistance	to resistance list and self test
Working under conditions of: air humidity residual moisture of the ground ground temperature min. ground temperature max.	40 - 65% < 80 % < 3 % 18 °C 22 °C
Curing time at 20°C: not sticky walking admissible final hardness Mechanical stability	after 8-10 hours / 16 hours after 16-24 hours / 24 hours after 7 days after 7 days
Adhesion strength on concrete	> 2 N/mm ² (fracture on concrete)
crack bridging according to DIN EN 1062-7 with approx. 1.5 mm thickness	test temperature: +23 °C 1,0 mm
ultimate tensile strength according to DIN EN ISO 527 Tension Elongation Test Temperature	test temperature + 23 °C 6.0 MPa 69,2 % +23 °C
Cleaning	BARiT Cleaner*



Recessed box in floor with electric installation

** with prism method - according to AGI Worksheet A 81 and BEB worksheets KH 5,

can be decontaminated and fumigated (H₂O₂)

* according to cleaning and care instructions





Photo: BARiT

BARiT CLEANROOM WALL COATING | Cleanroom Wall



Franz-Penzolt Zentrum Universitätsklinikum Erlangen

Photo: BARiT

DEFINITION AND PURPOSE

BARiT WALL COATING FOR CLEAN ROOMS meets with the requirements of pharmaceutical and cosmetic industries, clean-room technology and of hospitals. Any existing tiled walls or outer walls of concrete or plaster being reinforced by some fabric may be coated just as e.g. some new walls of plaster board or even of particle boards. .

Quick Info

- jointless
- non-porous
- aesthetic
- plane surface
- chemical resistance
- wipable
- easy cleaning and disinfection



APPEARANCE

The ideal starting point for aesthetic appearances, the product expertise that is the hallmark of BARiT has always been greatly valued. BARiT CLEANROOM WALL COATING is visually distinguishable by its consistent coverage and high resistance to light. The surface can be coated in a matte or satin finish according to a selection from the BARiT color chart. Specialized colors are available for areas over 500 m².

FEATURES

BARiT CLEANROOM WALL COATING is a two-component system based on solvent-free, epoxy resin that is enriched with mineral fillers and inorganic pigments, which are combined to improve the flexibility and elasticity of the polyurethane resin.

Due to the layer's thickness of Ø1.5 mm, the use of high quality materials and professional laying technology, the wall coating is resistant against abrasions and chemicals.

BARiT CLEANROOM WALL COATING meets the requirements set for surface cleanliness in accordance with VDI 2083, Sheet 4, as well as for the FDA and GMP. Interrupting elements such as windows and doors can be integrated seamlessly. Without corners and edges the wall coating can be connected to BARiT FLOORING by using a channel or a triangular base/plinth. The seamless and non-porous surface of BARiT CLEANROOM WALL COATING can easily be sprayed down for cleaning and disinfection.

TYPE	CLEANROOM WALL COATING
Binding agent	2-K-EP-resin, emulsified water
Fillers	inert
Flash point	-
Consumption/m ²	150-200 g/ process
Colour shade	BARiT card of colours
Grade of gloss	silk gloss and mat
Bending tensile strength DIN 1164	-
Compression strength DIN 1164	-
Adhesive pull strength DIN EN 24624	> 1,0 N/mm ²
Light-fastness	conditionally resisting to UV
Temperature resistance	95 °C temporarily 70 °C consistently
Chemical resistance	to resistance list and self test
Working under conditions of:	
air humidity	40 - 85 %
residual moisture of the ground	3 %
ground temperature min.	10 °C
ground temperature max.	22 °C
Curing time at 20°C:	
not sticky	after 6 hours
final hardness	after 7 days
Mechanical stability	after 4 days
Cleaning	BARiT Cleaner*

can be decontaminated and fumigated (H₂O₂)
* according to cleaning and care instructions



Channel