



Photo: BARiT

BARiT FLOOR COMPENSATION | Floor construction

BARiT THIN COMPENSATION TYPE S111

For thin coatings on prepared underlying surfaces, BARiT offers a thin and quick, fiber-reinforced coating - Type: S111. Due to its characteristics, good coverage can be achieved.

The thin coating S111 is a polymer-modified, fiber-reinforced fast filler for leveling of prepared underlying surfaces. BARiT S111 is quick drying, low stress, and has good coverage. The self-leveling, cement-based mortar can be applied in fine thicknesses from 3 - 15 mm as a composite bonding on top of cement-like surfaces such as concrete.

BARiT S111 sets in only two days. The installation must be applied on level surface according to DIN 18202, table 3, line 3/4; holes, ridges, etc. must be filled in first.

BARiT THIN COMPENSATION D800

For thin coatings on prepared underlying surfaces, BARiT offers a thin and quick, fiber-reinforced coating - Type: D800. Due to its characteristics, good coverage can be achieved.

The thin coating D800 is a polymer-modified, fast filler for leveling of prepared underlying surfaces. BARiT D800 is quick drying, low stress, and has good coverage. The self-leveling, cement-based fine mortar can be applied in thicknesses from 9 - 40 mm as a composite bonding on top of cement-like surfaces such as concrete. BARiT D800 sets in only two days. The installation must be applied on a level surface according to DIN 18202, table 3, line 3/4; holes, ridges, etc. must be filled in first.

BARiT KH-CONCRETE EPOXY-CEMENT-CONCRETE

For quick and tolerance-compensating subfloor leveling BARiT offers resin-bonded concrete.

Resin-bonded concrete can offset strong differentials in heights and bridge strong tolerances. With the requirement to compensate for slopes and for lining the subfloor to ± 0 mm, KH-CONCRETE can be installed to cover and compensate for the highest point.

BARiT KH-CONCRETE is an epoxy resin adhesive bridge installed as a composite. The shrink-free BARiT KH-CONCRETE can also offset holes, ridges, etc. and allows for layers from 0 - 250 mm thick.

BARiT KH-CONCRETE is composed of quartz granules, gravel and is tied together by a solvent-free, epoxy resin. BARiT KH-CONCRETE is free of shrinkage, ready for additional structural work after 8 hours and sets in 24 hours.

Quick Info

- planar
- quick readiness
- height adjustment
- low-shrink

TYPE	S111	D800	KH-CONCRETE
Fields of use	Remodeling new buildings	Remodeling new buildings	Remodeling new buildings
Suitability	Fine und levelling filler	Fein- und Nivellierspachtel	rapid compensation to 0 mm
Basic raw-material	Permixed fine cement	Permixed fine cement	Epoxy with quarzgranulat
Binding agent	Synthetic modified	Synthetic modified	Epoxy resin
Fillers/pigments	Additives	Additives	-
Technical properties	Water-mineral binding to DIN EN 13 813	Water-mineral binding to DIN EN 13 813	Epoxy bound
Application thickness	3 to 15 mm	9 to 40 mm	0 to 250 mm
Own weight	1,6 kg/m ²	1,6 kg/m ²	2 kg/m ²
Resistance to pressure DIN 1164**	50 N/mm ²	39 N/mm ²	> 40 N/mm ²
Bending tensile strength DIN 1164**	12 N/mm ²	8 N/mm ²	-
Processing	easy mixing, manual densifying	easy mixing, manual densifying	manual mixing and application
Environmental compatibility	free from harmful substances and poison, full recycleability	free from harmful substances and poison, full recycleability	free from harmful substances and poison, full recycleability
Use	Indoor	Indoor	Indoor
Curing at 20°C ready for application ready for use	after 2 days	after 2 days	after 12 hours after 24 hours

** with prismamethod



BARiT HEAT-INSULATING AND LIGHT COMPENSATION | Floor construction

DEFINITION AND PURPOSE

4-1 = The new lightweight and rapid compensations by BARiT connect the four main properties of floor construction: light weight, fast readiness, inert insulation and simple installation.

Vitmolit and Vitmopox are ideal as super fast levelling layers between wooden and brick coffered ceilings, vaulted and concrete in new ceilings in new builds and renovations.

Both levelling layers serve as subfloors in static, temporal, impact noise and thermal insulation requirements.

FEATURES

VITMOLIT consists of recyclable, lightweight granules, which are bound together with a special, quick-setting cement. Due to its material properties, Vitmolit is free of shrinkage and bonds as a leveling layer with an inert thermal insulation and compression strength of 10 N/mm². Structural processing is done in the same way as for standard, conventionally produced cement flooring.

VITMOPOX consists of recyclable, lightweight granules, which are bound together with a solvent-free, epoxy resin and has a weight of <350 kg/m².

Vitmolit and Vitmopox are installed with layer thicknesses from a minimum of 15 mm to a maximum of 50 mm. Thicker layers up to 350 mm can be achieved with multiply applied layers. This leveling layer is accessible after only a few hours. After twelve hours the leveling layer is set and ready for installation of ceramic coatings, textile coatings, natural stone, PVC floorings, rubber or linoleum.

Quick Info

- planar
- low weight
- fast readiness
- different height compensation
- thermal conductivity of $\lambda = 0.19 \text{ W/mK}$
- good compaction and
- simple to use
- recyclable

TYPE	VITMOPOX	VITMOLIT
Fields of use	Remodeling new buildings	Remodeling new buildings
Suitability	super-light and isolation layer	super-light and isolation layer
Basic raw-material	inflated glas	inflated glas
Binding agent	Expoxy resin	spezial Cement
Fillers/pigments	-	Additives
Technical properties	Expoxy bound	Water-mineral binding to DIN EN 13 813
Application thickness	15 to 50 mm	15 to 50 mm
Own weight	less than < 350 kg/m ³	less than < 700 kg/m ³
Resistance to pressure DIN 1164**	ca. 5 N/mm ²	ca. 10 N/mm ²
Heat isolation according to (Z-23-11-1154)	K-Wert = 0,08 W/mk $\lambda = 0,19$	K-Wert = 0,08 W/mk $\lambda = 0,19$
Processing	easy mixing, manual densifying	easy mixing and pumping, manual and mechanical densifying and smoothin only for permanently dry floor subconstructions
Environmental compatibility	solvent free, full recycleability	free from harmful substances and poison, full recycleability
Use	Indoor	Indoor
Curing at 20°C ready for application ready for use	after 8 hours after 24 hours	after 12 hours after 24 hours

** with prismamethod



Photo: BARiT

BARiT CONCRETE/SCREEDS | Floor construction

DEFINITION AND PURPOSE

Longevity of BARiT coatings is assured by the whole floor structure. Our services also provide for placing of concrete and screeds, either composite, in separate layers or „floating“. There are flow means, reinforcements and some modern operational incorporation method to assure good densification and evenness.

FEATURES

BARiT CONCRETE consists of a concrete formula that contains additional plasticizers for good sealing. By using a vacuum method along with hard aggregate mixtures, high strength is produced. The use of a laser screed device for installation of areas with increased accuracy is as natural as the use of steel fiber technology.

BARiT SCREEDS can be applied to a prepared concrete base. To avoid adhesion problems, the surface is cleaned, pellet-blasted or milled and then treated with a bonding agent.

BARiT Release Liner Flooring is applied on top of a polyethylene sheet.

Floating BARiT CONCRETE utilizes the integration of sound insulation as well as thermal insulation.

APPEARANCE

For BARiT KH Coatings the surface structure can be installed, depending on future use, from smooth for transparent water-proofing to slightly roughed / non-slip by pellet-blasting. The addition of steel or polypropylene fibers is used to minimize crackling and shrinkage cracks.

Quick Info

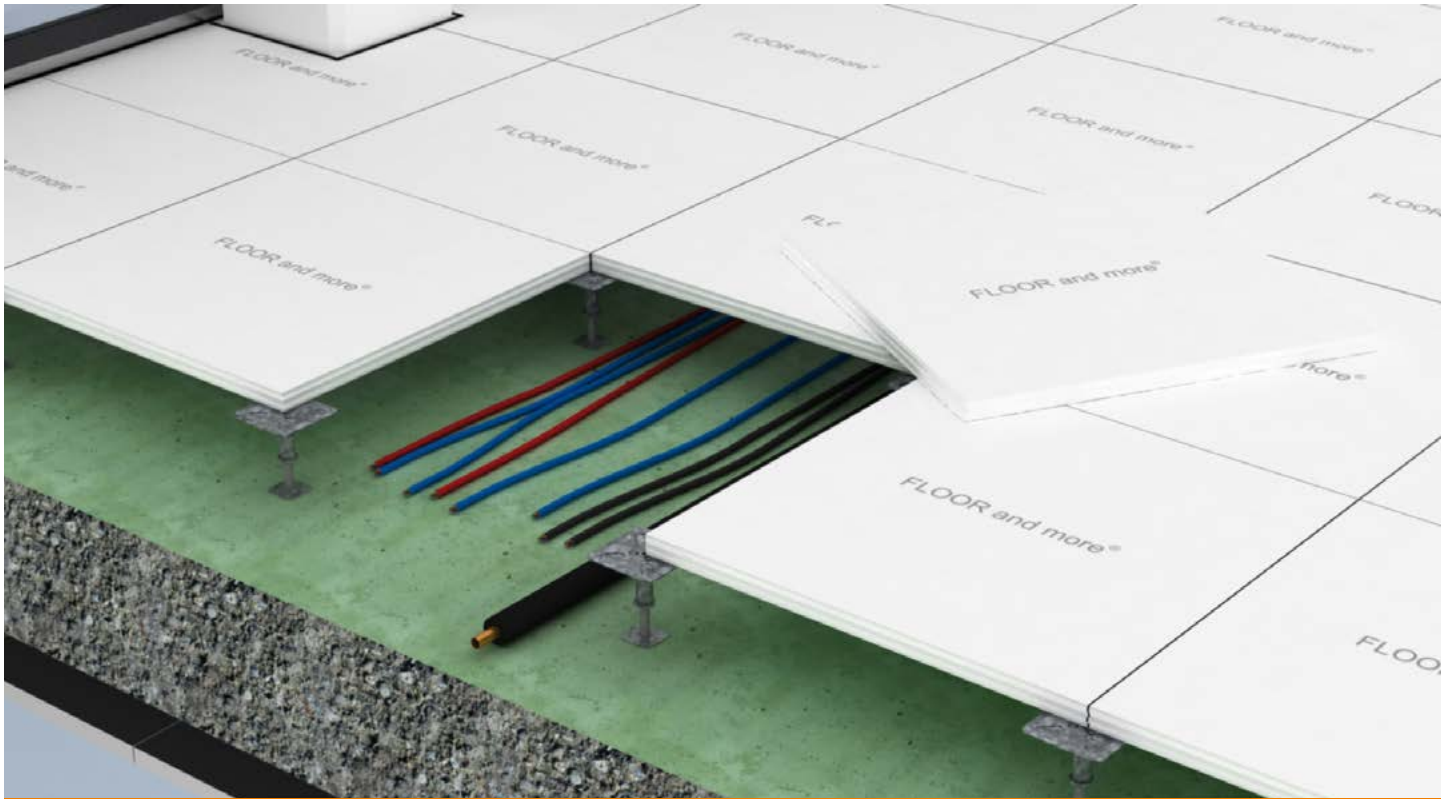
- plane
- minimized cracking
- high consistency
- good density
- tailored sloping

TYPE	1	2a	2b	3a	3b
Supporting ground:	cement concrete to DIN 1045	cement-bonded creed	concrete layer to DIN 1045	cement on separating layer and/or „floating“	concrete layer to DIN 1045
Thickness of layer	to engineer's calculations	max. 8 cm	8 – 12 cm	max. 8 cm	8 – 12 cm
Stability	> C25	> CT-C36-F7	> C25	CT-C36-F7-5 C36-F7-T	> C26
Lower limit	Foil towards ground*	Compound	Compound	Compound	Separating layer
Levelness to DIN 18 202, page 3, table 3	Line 2, if necessary Line 3	Line 3, if necessary Line 4	Line 3, if necessary Line 4	Line 3, if necessary Line 4	Line 3, if necessary Line 4
Surface condition for BARiT-TERRAZZO BARiT-Coating BARiT-Impregnation und Sealing	good grip - slightly rough smoothed and roughened	good grip - slightly rough smoothed and roughened	good grip - slightly rough smoothed and roughened	good grip - slightly rough smoothed and roughened	good grip - slightly rough smoothed and roughened



Installation of a composite surface in a commercial kitchen





BARiT HOLLOW FLOORING | Floor construction



VW Markenpavillon, Wolfsburg

DEFINITION AND PURPOSE

The cavity floor FLOOR and more® offers excellent features and is at the cutting edge of technology.

FLOOR and more® consists of a supporting substructure and calcium sulphate base plates glued together - a material with excellent structural properties: non-flammable, acoustically highly effective and highly durable after just one day.



RKW Architekten, Düsseldorf

Quick Info

- high endurance
- easy installation



VW Markenpavillon, Wolfsburg



Hollow floor slab with in floor heating

FLOOR and more® power

- Specialized sheet formula
- Reinforced channel supports
- Unnecessary reinforcement sections
- Drive-able with heavy, motorized, lifting equipment

FLOOR and more® comfort

- Quick response time for heating and cooling
- Almost all surface types are possible
- Heating capacity of 60 W/m^2 - 100 W/m^2 and cooling capacity of 23 W/m^2 - 45 W/m^2
- Environmentally friendly, due to low supply temperature

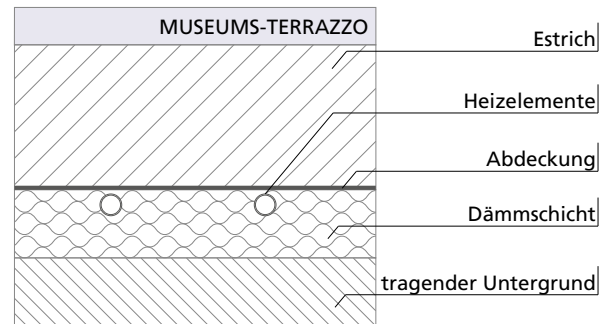
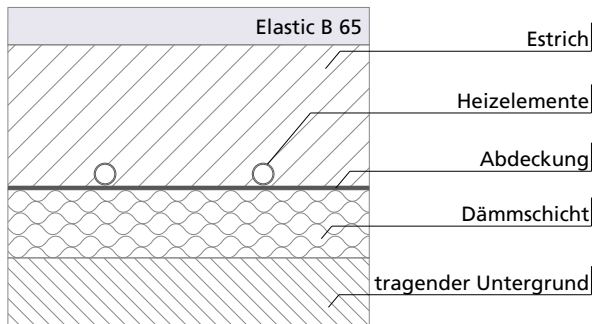
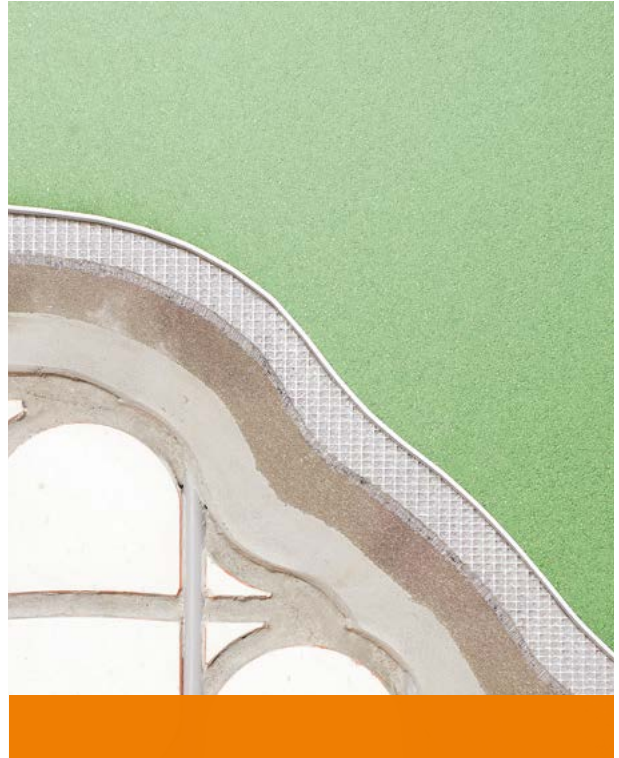
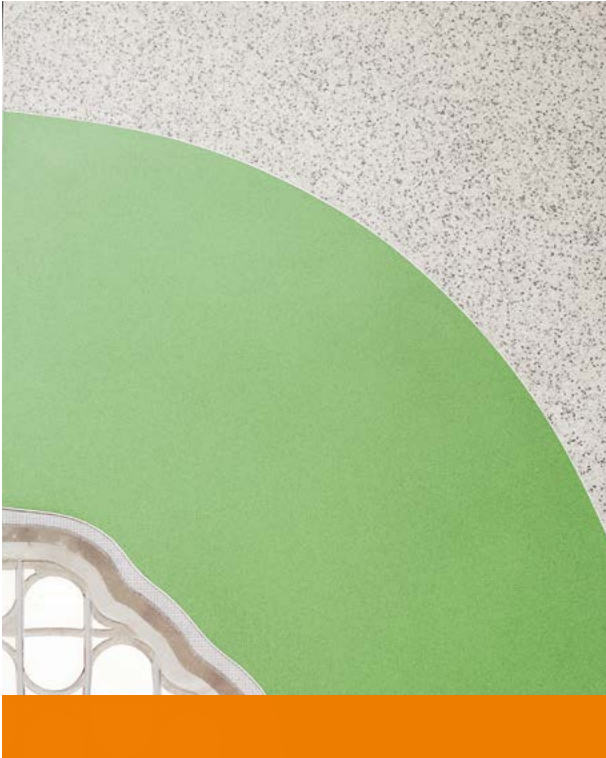


Kitchen, Stuttgart

FLOOR and more® hydro

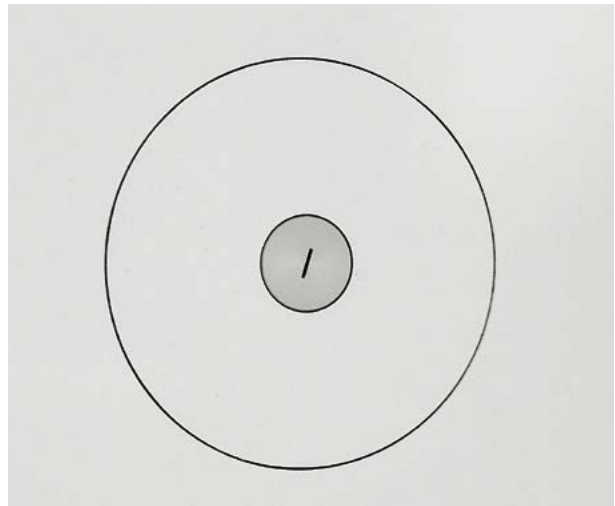
- Suitable for rooms with higher moisture content
- Can handle high loads

TYPE	HOLLOW FLOORING
Slab	Fiber-reinforced calcium sulfate slab with toothed grooves
Load-bearing capacity	2 kN - 6 kN
Fire protection	
Material class of the carrier slab	A2, A1 (non-combustible)
Fire resistance class	F 30, REI 30 and F 60, REI 60
System weight	38 kg/m^2 - 83 kg/m^2
Standard installation height	38mm - 2000mm
Slab thickness	24mm - 44mm
Support foot spacing	600mm x 600mm (additional support foot spacing depending on system used)
Schallschutz	
Standard flanking level difference $D_{n,f,w}$	44dB - 57dB
Sound insulation amount R_w	62dB - 64dB
Standard flanking impact sound level $L_{n,f,w}$	73dB - 47dB
Sound absorption amount ΔL_w	11dB - 29dB
Covering Suitability	all BARiT Surfaces





Inspection cover



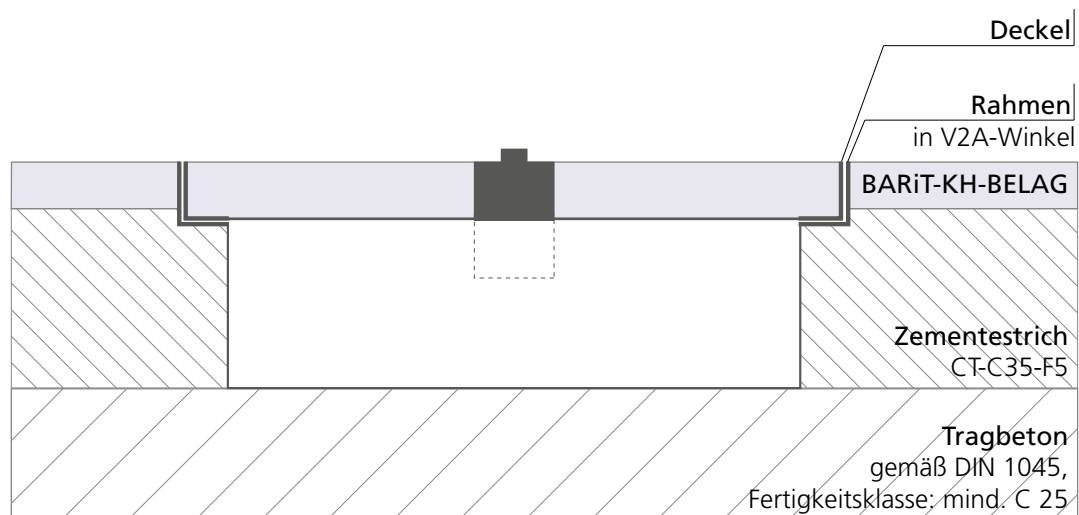
Round floor socket



Square floor socket



Round floor socket



Side View