

# PRODUCT OVERVIEW 2017

SCHWENK Spezialbaustoffe GmbH & Co. KG



## SCHWENK Spezialbaustoffe GmbH & Co. KG

SCHWENK Spezialbaustoffe GmbH & Co. KG is part of the SCHWENK building materials group, producing a large range of high-performance special binding agents. From individual production development to technical consulting to on-site logistics, a highly qualified team will ensure smooth processes and optimal solutions, even in the most demanding of construction tasks. This includes special civil engineering, tunnelling, road construction, well construction, geothermal energy. Consistent product monitoring and development of products with special product properties reflect our quality idea and claim to sustainability according to our leading principle of „living material“.

### Road construction

Our hydraulic road binders and our cement and reactive lime-based Bodenbinder improve the compaction capacity and sustainably increase the bearing capacity of soils and material mixtures. Our coordinated binding agent mixtures permit simple adjustment to the requirements of today's traffic road construction.



### Special civil engineering

SCHWENK has developed binding agents specifically for the high demands of special civil engineering. They hold a key position in production of safety elements, such as short-term and permanent anchors and tiebacks. We also offer the device technology to prepare and store our binding agents.



### Civil engineering and geothermal energy

SCHWENK Füllbinder® have been developed for filling and sealing under very difficult conditions and have already proven their worth in the areas of near-surface geothermal energy, well construction and civil engineering.



# PRODUCT OVERVIEW

Product	Main components	Properties	Applications	Delivery factories
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## ■ Special binding agents for road construction and earthworks

<b>HRB E 4</b> Hydraulic road binder DIN EN 13282-1	Hydraulic binder according to DIN EN 13282-1	Improvement of the compaction capacity, increased bearing capacity, increased resilience to physical stress and chemical attacks, reduction of the elution rate of hazardous substances	Soil improvement, soil consolidation, hydraulically bound base layers (HGT), rolled concrete, reuse of tar-containing street debris	Bernburg Karlstadt Mergelstetten
<b>SCHWENK Hydraulic road binder</b> with hydrophobic additives	Hydraulic binder in accordance with DIN EN 13282-1, hydrophobic additives	Improvement of the compaction capacity, increased bearing capacity, increased resilience to physical stress and chemical attacks, reduction of the elution rate of hazardous substances, delayed reactivity with water due to hydrophobic additives	Soil improvement, soil consolidation, hydraulically bound base layers (HGT), rolled concrete, reuse of tar-containing street debris	Bernburg Karlstadt Mergelstetten
<b>SCHWENK Zement</b> with hydrophobic additives	Cement according to DIN EN 197-1, hydrophobic additives	Improvement of the compaction capacity, increased bearing capacity, increased resilience to physical stress and chemical attacks, reduction of the elution rate of hazardous substances, delayed reactivity with water due to hydrophobic additives	Soil improvement, soil consolidation, hydraulically bound base layers (HGT), rolled concrete, reuse of tar-containing street debris	Bernburg Karlstadt Mergelstetten
<b>SCHWENK Recycling-Binder</b>	Hydraulic binder in accordance with DIN EN 13282-1, selected additives	Coordinated mixture to reduce the elution rate of hazardous substances, increase the resistance to physical stress and chemical attacks	Integration of hazardous substances, reuse of tar-containing street debris	Karlstadt Mergelstetten
<b>Bodenbinder 100</b> <b>Bodenbinder 300</b> <b>Bodenbinder 500</b> <b>Bodenbinder 700</b>	Reactive limestone, cement according to DIN EN 197-1	Coordinated mixture to improve compaction capacity and increase the bearing capacity of soils and material mixtures	Soil improvement qualified soil improvement, soil consolidation	Karlstadt Mergelstetten
<b>Bodenbinder B 10</b> <b>Bodenbinder B 30</b> <b>Bodenbinder B 50</b> <b>Bodenbinder B 70</b>	Reactive limestone, cement according to DIN EN 197-1	Coordinated mixture to improve compaction capacity and increase the bearing capacity of soils and material mixtures	Soil improvement qualified soil improvement, soil consolidation	Bernburg Karlstadt Mergelstetten
<b>Bodenbinder L</b>	Cement according to DIN EN 197-1, latent hydraulic and/or pozzolanic additives	Improvement of compaction capacity and increase of the bearing capacity of soils and material mixtures	Soil improvement qualified soil improvement, soil consolidation	Bernburg Karlstadt Mergelstetten

Product	Main components	Properties	Applications	Delivery factories
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■ **Special binding agents for civil engineering, canal and pipe construction, well construction and geothermal energy**

<b>Füllbinder® L</b>	Hydraulic binder, rock dusts	Very good pumping and flowing properties, low strength, low water permeability, very low hydration heat	Hollow filling and sealing, embedding geothermal heat probes <sup>1)</sup> , filling and sealing of annular spaces in well construction, possible to use in the drinking water area and corresponding protection zones	Allmendingen Bernburg Karlstadt Mergelstetten
<b>Füllbinder® L-hs</b>	Hydraulic binders, rock dusts	Very good pumping and flowing properties, high sulphate resistance, resilience to frost/thaw change-stress, very low water permeability, very low hydration heat	Hollow filling and sealing, embedding geothermal heat probes, filling and sealing of annular spaces in well construction, possible to use in the drinking water area and corresponding protection zones	Allmendingen Mergelstetten
<b>Füllbinder® M</b>	Hydraulic binder, rock dusts	Very good pumping and flowing properties, very low water permeability	Hollow filling and seals, filling and sealing of annular spaces in well construction, improvement or consolidation of soils, jet-grouting for producing sealing slabs and sealing walls, possible to use in the area of drinking water and the corresponding protection zones	Bernburg Karlstadt Mergelstetten
<b>Füllbinder® H</b>	Hydraulic binder, rock dusts	Very good pumping and flowing properties, very low water permeability, resilience to frost/thaw change-stresses, low hydration heat	Hollow filling and seals, embedding of geothermal heat probes <sup>1)</sup> , filling and sealing of annular spaces in well construction, improvement or consolidation of soils, jet-grouting to produce sealing slabs and sealing walls, possible to use in the drinking water area and the corresponding protection zones	Allmendingen Bernburg Karlstadt Mergelstetten
<b>Füllbinder® H-hs</b>	Hydraulic binders, rock dusts	Very good pumping and flowing properties, high sulphate resistance, resilience to frost/thaw change-stresses, very low water permeability, very low hydration heat	Hollow filling and seals, embedding of geothermal heat probes, filling and sealing of annular spaces in well construction, improvement or consolidation of soils, jet-grouting to produce sealing slabs and sealing walls, possible to use in the drinking water area and the corresponding protection zones	Allmendingen Mergelstetten
<b>Füllbinder® H-hs plus</b>	Hydraulic binders, rock dusts, special marking additive	Marked special binder, in the drilling hole geophysically detectable, very good pumping and flowing properties, high sulphate resistance, resilience to frost/thaw change-stresses, very low water permeability, very low hydration heat	Embedding geothermal heat probes, filling and sealing of annular spaces and seals, hollow filling, possible to use in the drinking water area and corresponding protection zones	Allmendingen Mergelstetten
<b>Füllbinder® S</b>	Hydraulic binder, rock dusts	Very good pumping and flowing properties, high early and final strength, very low water permeability	Hollow fillings, jet-grouting to produce sealing slabs, walls or underpinnings, improvement or consolidation of soils and loose stone	Bernburg Karlstadt Mergelstetten
<b>Füllbinder® R</b>	Hydraulic binder, rock dusts	Very good pumping and flowing properties, high early and final strength, very low water permeability	Jet-grouting to produce sealing slabs, walls or underpinnings, improvement or consolidation of soils and loose stones, production of vibrated stone columns	Bernburg Karlstadt Mergelstetten
<b>Füllbinder® EWM</b>	Hydraulic binders, selected additives, fine rock grains	Very good pumping and flowing properties, high thermal conductivity, high sulphate resistance, resilient to frost/thaw change-stresses, very low water permeability, very low hydration heat	Embedding of geothermal heat probes, possible to use in the drinking water area and the corresponding protection zones	Allmendingen Mergelstetten
<b>Füllbinder® EWM plus</b>	Hydraulic binders, selected additives, fine rock grains, special marking additive	Marked special binder, geophysically detectable in the drilling hole, very good pumping and flowing properties, high thermal conductivity, high sulphate resistance, resilient to frost/thaw change-stresses, very low water permeability, very low hydration heat	Embedding of geothermal heat probes, possible to use in the drinking water area and the corresponding protection zones	Allmendingen Mergelstetten

<sup>1)</sup> Delivery factories Allmendingen and Mergelstetten

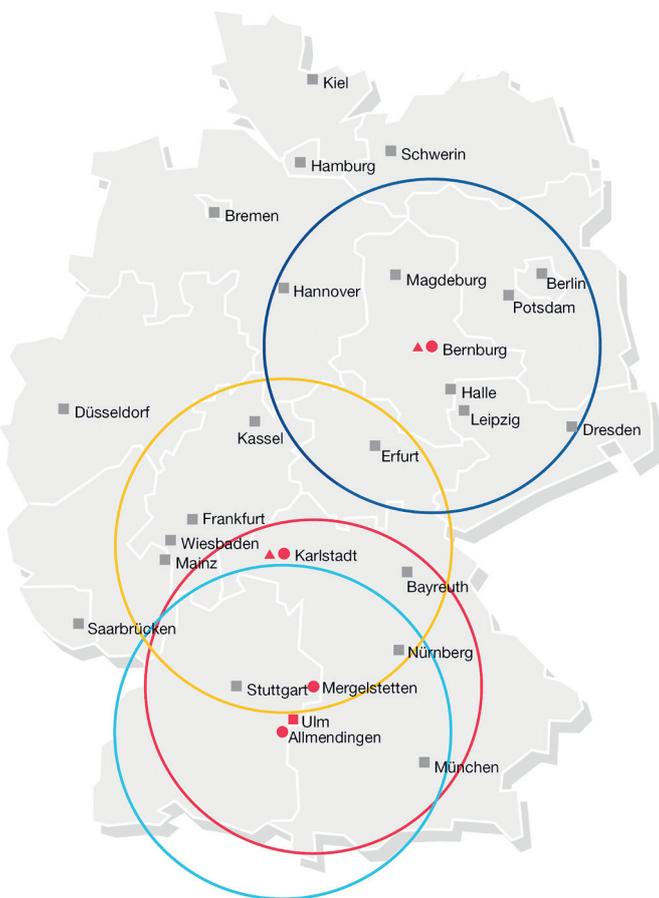


Product	Main components	Properties	Applications	Delivery factories
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■ **Special binding agents for special civil engineering, tunnelling and mining**

<b>Ankerzement®</b> CEM I 42,5 R-HO DIN 1164-12	Cement according to DIN EN 197-1, DIN 1164-12, special additives	Good processability at a low water/cement ratio, very high early strength, targeted expansion	Injection/ground anchors according to DIN EN 1537, DIN SPEC 18537, micro-piles according to DIN EN 14199, rock and ground nails according to DIN EN 14490, self-drilling anchors, buoyancy protection, construction pit protection, slope protection	Karlstadt
<b>Ankerzement® HS</b> CEM III/A 52.5 L-SR HO Z-3.11-2033	Cement according to DIN EN 197-1, DIN 1164-12, special additives	Good processability at a low water/cement ratio, high sulphate resistance, very high early strength, targeted expansion	Injection/ ground anchors according to DIN EN 1537, DIN SPEC 18537, micro-piles according to DIN EN 14199, rock and ground nails according to DIN EN 14490, self-drilling anchors, buoyancy protection, construction pit protection, slope protection	Karlstadt
<b>Ankermörtel</b>	Cement according to DIN EN 197-1, rock grains according to DIN EN 12620, special additives	Good pumping properties, stable for overhead processing, quick hardening, high final strength	Mountain anchors, ground anchors, ground nails	Allmendingen Karlstadt
<b>Ankermörtel-hs</b>	Cement according to DIN EN 197-1, DIN 1164-12, rock grains according to DIN EN 12620, special additives	Good pumping properties, high sulphate resistance, stable for overhead processing, quick hardening, high final strength	Mountain anchors, ground anchors, ground nails	Karlstadt
<b>Trockenbeton TB 25/4</b>	Cement according to DIN EN 197-1, rock grains according to DIN EN 12620, special additives	Very good pumping properties, very good processing properties	Cleanliness and compensation layers, foundation elements, gardening and landscaping	Eigeltingen Gräfenberg Karlstadt Wittislingen

## Map of the delivery areas



- Main administration of the materials group SCHWENK and seat of the SCHWENK Zement KG
- Factory site of SCHWENK Zement KG
- ▲ Sales office of SCHWENK Spezialbaustoffe GmbH & Co. KG

- Delivery area Allmendingen (cements)
- Delivery area Bernburg (cements and special building materials)
- Delivery area Karlstadt (cements and special building materials)
- Delivery area Mergelstetten (cements special building materials)

The information in this document is based on current knowledge and experience. Earlier documents are rendered invalid by the publication of this document. Changes in the scope of product and application-technical further developments are reserved. All business relationships are subject to our sales and delivery terms as amended from time to time.

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