



Rhein-Chemotechnik GmbH
For better Concrete



CONCRETE CHEMICALS

CONCRETE ADMIXTURES | SURFACE PROTECTION PRODUCTS

RELEASE AGENTS

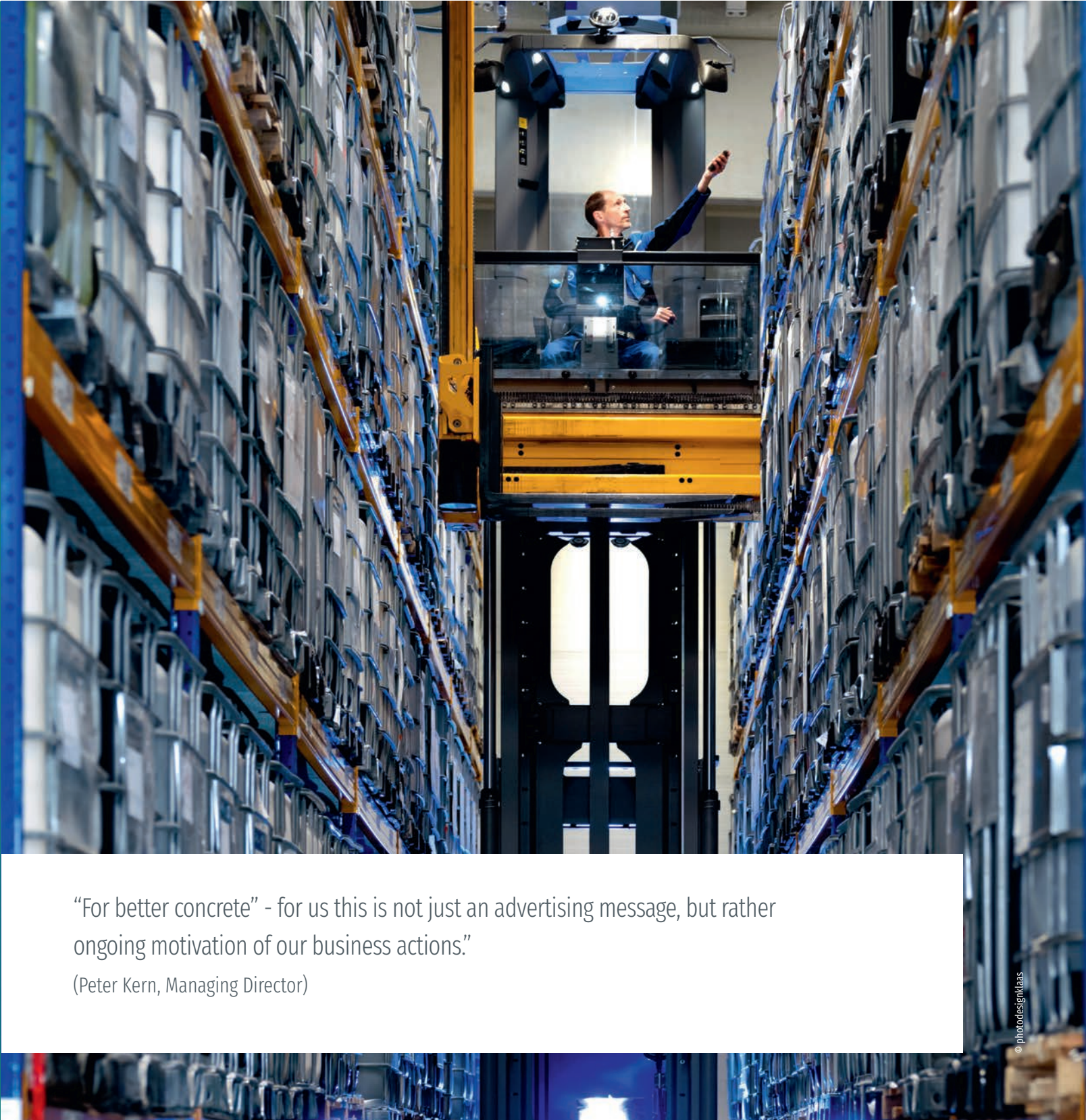
CLEANING AND MAINTENANCE PRODUCTS

GRANULATE

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“For better concrete” - for us this is not just an advertising message, but rather ongoing motivation of our business actions.”
(Peter Kern, Managing Director)

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For better concrete.



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WE ARE THE PARTNER FOR BUSINESSES IN THE CONCRETE INDUSTRY

Innovative concrete admixtures have become indispensable in modern concrete construction. They are increasingly shaping the technological development of concrete.

Since 1966, we have been developing and manufacturing concrete admixtures, surface protection products, concrete parting agents and cleaning and maintenance products for top-quality concrete products at our site in 53547 Breitscheid, Germany.

Our team of around 40 specialists works hard every day to offer you the best solution for your application every single time. We consider ourselves to be a project partner with the goal of refining your product or getting the most out of it. And if we should not find what you need in our extensive product range, we can also develop customized solutions.

Our experienced chemists and concrete technicians work hand in hand.

Thanks to the quality of our products and our extensive and competent service, we have remained your powerful and reliable partner for more than five decades.

**MADE IN
GERMANY**

1 TEAM | 3 SKILLS

Technical Consultation | Chemistry Laboratory | Concrete Laboratory

We have been your contact partner for all issues relating to concrete admixtures and surface protection products. In addition, our portfolio includes concrete parting agents as well as cleaning and care products for assets in the concrete processing industry. Our competence in the field of concrete chemistry is reflected in the consistently high quality of our products. Customers all over the world trust our expertise.

All products and services of Rhein-Chemotechnik GmbH are measured and evaluated in accordance with the specifications of a DIN EN ISO 9001 certified quality management system and are subject to a continuous development and improvement process.



DIN ISO 9001 certification

Rhein-Chemotechnik GmbH has been DIN ISO 9001 certified since 2014. All processes are subject to constant quality assessment and further development. This allows us to maintain the quality of our products across all manufacturing processes, starting with the selection of our raw materials and suppliers and all the way to delivery. That is our promise of quality.



Construction Material Testing Institute (VMPA)

The Construction Material Testing Institute (Baustoffprüfinstitut - VMPA) at Rhein-Chemotechnik GmbH offers support ranging from the quality assessment of raw materials to recipe optimization and quality testing of finished concrete products. In addition, we advise on production adjustments to adapt to valid standards and new technologies.



Technical consultation

Experienced concrete engineers (VDB) and field service consultants at Rhein-Chemotechnik GmbH support you in selecting the right products. Our advice includes, among other things, the assessment of the intended application or the performance of suitability tests in the laboratory or at the plant.

If you have any operation-specific issues, we will also be happy to help you. You are assigned a permanent contact person for any question you might have about our product range.

Chemistry laboratory

Around 20% of our employees work in our research and development department. In addition to our own product developments, we work with you to develop individual and customer-specific solutions.

All concrete admixtures, which are used for unreinforced, reinforced, and prestressed concrete, used in turn for in-situ and ready-mixed concrete as well as for concrete for precast parts, comply with EN 934-2. The on-site production inspection process is certified and externally monitored by an independent inspection body (MPA NRW).

Concrete laboratory

Our colleagues in the chemical laboratory and concrete laboratory work hand in hand. In addition to the ongoing quality tests of our products, we carry out all required concrete tests with cutting edge measuring instruments and according to recognized international standards.

We are your partner for any project related to concrete technology.

OUR SERVICE

Professional service that is quickly available to every customer has always been an integral part of our performance. As a result, our comprehensive customer service offers additional benefits to customers that are reflected in maximum safety, quality and cost-effectiveness when using our products.

Application technology and concrete technology service

Close cooperation based on partnership is important to us. You are assigned a permanent contact person right from the start. Our expert team of chemists and concrete engineers is always there for you with professional knowledge.

Our specialists accompany you from the first idea to the finished product. Based on your requirement profile, we decide which products from our range are the best addition to your initial product, and thus achieve optimal results that meet the highest quality standards.

Product development and customization

Would you like to emphasize the unique character of your concrete products and set yourself apart from your competitors? For such needs as well, the experts at Rhein-Chemotechnik GmbH are your contact partner.

Together with you, we develop individual customer solutions that take into account the framework conditions of the entire manufacturing process and get the most out of your products.

We deliver our products in person

With our own modern vehicle fleet, we deliver our products to Germany, the Netherlands, Belgium, Luxembourg, and Switzerland. Benefit from short delivery times and our experience in handling suitable containers. In addition to delivery in IBCs or barrels, you can also receive larger quantities in bulk by tanker. We take back empty IBCs free of charge for recycling and further use – for the sake of the environment. For the same reason, all of our vehicles use modern AdBlue technology.

We look forward to your inquiry.

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OUR PHILOSOPHY

Common values - a common course

We are the third generation managing Rhein-Chemotechnik GmbH as a family business. We have been growing steadily as a company over the past fifty years. The values with which our founders built the company still shape our entrepreneurial activities today and build the basis of our corporate philosophy.

The concrete industry is constantly developing. We also pursue this idea of innovation and continue to develop all our products. Yet we can only do this with motivated and qualified employees. Our team has an interdisciplinary and progressive approach to work. We follow the same path - from the first idea to the finished product.

We are fully focused on the sustainable success of our customers, for whom we are a reliable partner. With all this mind, we do every best every single day.

The partnership relationship with our suppliers, customers and local institutions forms the basis of our daily activities. We are proud of that.

THE SIX PILLARS OF OUR ENTREPRENEURIAL ACTIVITY

QUALITY

When selecting our suppliers and raw materials, we rely on the highest quality. We continue this claim from the manufacture of our products to delivery across all process steps.

RELIABILITY

Reliability is an important part of top-quality work for us. Our employees, our customers and our suppliers can always rely on us.

CONTINUITY

We rely on long-term business relationships. Our employees enjoy working for us. Their competence lies in product optimization and constant research and development

FAIRNESS

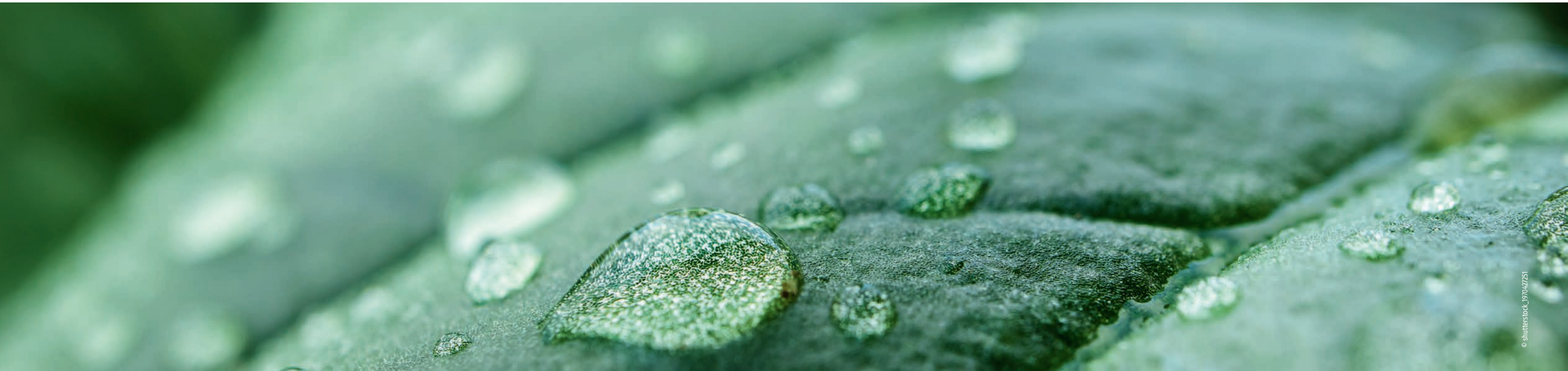
Fairness is of particular importance to us. It begins with fair payment and ranges from gender equality to consistent top-quality products at honestly calculated prices.

RESPECT

Respectful mutual relationships are crucial to us. We value mutual respect between each individual and at any level of relations. We live with a positive and respectful attitude.

HONESTY

Honesty is the highest interpersonal good. We deal honestly with all relevant persons, regardless of how they relate to our company.



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SUSTAINABILITY AND RESPONSIBILITY

Optimize processes and conserve resources

To make sure that our essential resources - people and the environment - are protected, sustainable thinking and behavior are the prerequisite of our daily work.

We have already developed guidelines and processes to save energy, water, and fuel already today and are constantly working on further expanding sustainable structures in the company. We generate the electricity we need proportionately from our own photovoltaic system, while empty IBCs can be returned to us and thus fed back into our packaging cycle. We also reuse our rinse water to the greatest possible extent.

It's the little things and the ideas of every single person that let us continue to grow together. Thanks to this creativity, we are able to constantly improve and expand our sustainability concept.

PRODUCT DEVELOPMENTS:

We know our raw material suppliers and comply with modern standards and fair conditions.

Our products are as highly concentrated so that they can be used effectively by customers.

Concrete admixtures and surface protection products increase the service life of manufactured products.

Our biodegradable litter granulate is a waste-saving packaging alternative for concrete block products.

OPTIMIZED PRODUCTION SITE

We generate the bulk of the electricity we need at our own production site.

We use energy-saving LED lamps almost everywhere in the company.

Internal logistics and material planning have been optimized thanks to modern technology.

MODERN FLEET TECHNOLOGY

Our modern vehicle fleet helps us contribute to reducing emissions in the air. All vehicles comply with the EURO 6 standard and use AdBlue technology.

We avoid empty runs of our vehicles and optimize loading.

Our electric forklifts run on electricity generated in-house.

OUR CIRCULATORY SYSTEMS

We have developed recycling systems for many operations and production processes, which helps us save resources and contribute to protecting the environment.

Used IBCs are professionally cleaned and reused.

Rinse water is collected and reused to the greatest possible extent.

CONCRETE ADMIXTURES FOR THE CONCRETE-PRODUCTS INDUSTRY

PLASTICIZERS

PAVELITH® | PLASTOLITH | PERMACOLOR® | ALPHALITH®

We are pioneers in the development of plasticizers for earth-moist concrete for the production of high-quality directly demolded concrete block products in fully automatic production installations using the vibro-compaction and pressing process.

Our product advantages:

- › Accelerated and homogenized mold filling
- › Enhanced compact readiness
- › Increased green strength
- › Increased in density, strength, and durability
- › Reduced machine cycle times
- › Minimized material costs

The quality and profitability of concrete paving stones according to EN 1338, paving slabs according to EN 1339, curb stones according to EN 1340, concrete pipes, bricks and non-standard concrete components of all kinds can be significantly improved by using our plasticizers.

PAVELITH®	CHARACTERISTICS	FIELDS OF APPLICATION
PAVELITH® KB 100 is a highly effective plasticizer especially for the processing of earth-moist concretes in high-quality concrete block products and provides significantly improved properties of fresh and hardened concrete, as well as the possibility of increased dosage of the mixing water.	› higher water absorption › significantly better workability and greater compactibility › improved filling properties › increased strength › higher freeze-thaw resistance › cement savings of up to 10-15 % or higher share of pozzolanic additives possible › significantly improved appearance thanks to the closed concrete structure	› paving stones › slabs › curbstones › garden stones › bricks made of pumice, LAVA, LECA or similar
PAVELITH® KB 110 is a highly effective plasticizer especially for the processing of earth-moist concretes in high-quality concrete. It is ideal for high-quality concrete products, improving both fresh and hardened concrete properties. It also allows for an increased dosage of mixing water.	› higher water absorption › significantly better workability and greater compactibility › improved filling properties › increased strength › higher freeze-thaw resistance › cement savings of up to 10-15% or higher share of pozzolanic additives possible › significantly improved appearance thanks to the closed concrete structure	› paving stones › slabs › curbstones › garden stones › bricks made of pumice, LAVA, LECA or similar
PAVELITH® KB 120 is a highly effective plasticizer especially for the processing of earth-moist concrete in high-quality concrete block products and is characterized by significant improvements in the fresh and hardened concrete properties, as well as the possibility of increased water dosage.	› higher water demands › better processability and greater ability to compact › improved filling properties › improved flowability › higher strengths › higher resistance to frost and de-icing salt › 10-15% cement savings or higher proportion of pozzolanic additives possible › better appearance thanks to the closed concrete structure	› paving stones › slabs › curbstones › garden stones › bricks made of pumice, LAVA, LECA or similar
PAVELITH® KB 606 BV is a highly effective plasticizer which provides top strength with a low cement content, especially in earth-moist concrete.	› improved filling action › dense concrete structure › improved cement hydration › top strength at low cement content › dense, visually appealing surfaces › good side sealing	› concrete paving stones › curbstones › paving slabs › concrete components, such as grass pavers, curbstones, garden slabs, angle stones, etc. › dry Cast and direct formwork removal
PAVELITH® AP 35 is a highly effective plasticizer especially für the processing of earth-moist concrete into top quality concrete block products.	› higher early and final strength › cement savings of up o 10-15% or higher share of pozzolanic additives (e.g. fly ash) › enhanced leak-tightness › higher freeze-thaw resistance › no adhesive bonding on machine stamps, even in relatively moist mixtures	› paving stones › curbstones › slabs › garden stones › bricks made of pumice, LAVA, LECA or similar

PLASTOLITH	CHARACTERISTICS	FIELDS OF APPLICATION
PLASTOLITH F is a high performance plasticizer for the production of high quality concrete products, like paving stones, curbstones etc.	› synthetic plasticizer with internal curing by high water-retaining capacity › decreases sticking at the machine stamp	› paving stones, according to EN1338 › curbstones, according to EN1340 › slabs, according to EN1339 › building blocks, and further concrete products from zero-slump concrete

ALPHALITH®	CHARACTERISTICS	FIELDS OF APPLICATION
ALPHALITH® Plasticizer 1 is a plasticizer with a purely synthetic active ingredient base with optimal effectiveness in zero slump concrete.	› higher early and final strength › higher density › higher freeze-thaw-resistance › much better appearance due to the closed concrete structure, especially evident in large sized products › improved processability and increased compactability › no sticking to machine stamp, even when working with relatively moist mixtures	› pavers cobblestones › flags › curbstones › retaining walls › landscaping products › concrete bricks and blocks
ALPHALITH® Plastifizierer 2S is a highly effective plasticizer for earth-moist concretes and provides maximum strength with low cement content.	› causes spontaneous wetting and dispersion of all binder particles and fines in a mixture › strongly promotes compaction › results in a very dense concrete structure with high strengths › Optimization of cement hydration › high strengths at low cement contents	› concrete paving stones › curbstones › paving slabs › non-standard concrete components, such as grass pavers, curbstones, garden slabs, angle stones, etc.
ALPHALITH® Betonsteinadditiv WRA-10 is a special dispersing additive with high water-retaining properties for the production of high-grade concrete products with high density and durability from zero-slump concrete. ALPHALITH® WRA-10 renders possible the production of zero-slump concrete with an optimum amount of water, high green strength, high density and maximum grade of cement hydration.	in face mix concrete: › homogenous concrete surface with high density › and minimized amount of structural pores › minimized sticking of concrete at the tamper head › and minimized surface defects › increased freeze-thaw-resistance › increased abrasion resistance › reduced efflorescence	in base mix concrete: › high structural density and very good side finish › high green strength › increased early- and final strength › reduced efflorescence › concrete paving stones, curbstones, flagstones › products made from earth-moist concrete

PLASTICIZER WITH EFFLORESCENCE PROTECTION AND COLOR INTENSIFIER

PERMACOLOR® | PLASTOLITH | COLORCRETE® | PAVELITH®

Plasticizers with color intensifiers are used to manufacture colored concrete block products. Our plasticizers with efflorescence protection and color intensifier reinforce dyed concrete components:

- › Color brilliance
- › Durability
- › Attractive appearance

Depending on the set of requirements, a selection of admixtures with specific properties is available.

Our brand names PERMACOLOR®, PLASTOLITH, Colorcrete® and PAVELITH® stand for our consistently high product quality. Plasticizers from Rhein-Chemotechnik GmbH are used successfully all around the world and give concrete block products exceptional properties.

PERMACOLOR®	CHARACTERISTICS	FIELDS OF APPLICATION
PERMACOLOR® 2 has especially been developed for the improvement of colored concrete pavers being processed from zero-slump concrete.	› reduced primary and secondary efflorescence › improved color performance › reduced absorption rates › better surface texture	Production of concrete block products from earth-moist concrete such as: › pavers › slabs › embankment stones › palisades › and many others
PERMACOLOR® 2000 considerably reduces efflores-cence and improves colour performance of concrete products manufactured from zero-slump concrete.	› reduced calcium-carbonate efflorescence and iron-based efflorescence/discoloration › improved colour performance › diminished sticking of concrete at the machine stamp › good surface finish	Production of concrete block products from earth-moist concrete such as: › pavers › slabs › retaining-wall Blocks › gardening and landscaping products › and many others
PERMACOLOR® 2010 is a special multi-functional admixture for the produc-tion of high quality concrete products from zero-slump concrete.	› improved workability of the mix with optimum water content › reduced calcium-carbonate efflorescence and iron-based efflorescence/discoloration › improved colour performance › significantly diminished sticking of concrete at the machine stamp › dense and smooth surface finish › improved freeze-thaw resistance and durability	Production of concrete block products from Zero-slump concrete such as: › pavers › slabs › gardening and landscaping products › and many others
PERMACOLOR® 2025 is a special multi-functional admixture for the production of high quality concrete products from zero-slump concrete.	› improved workability of the mix with optimum water content › reduced calcium-carbonate efflorescence and iron-based efflorescence/discoloration › improved colour performance › significantly diminished sticking of concrete at the machine stamp › dense and smooth surface finish › improved freeze-thaw resistance and durability	Production of concrete block products from Zero-slump concrete such as: › pavers › slabs › gardening and landscaping products › and many others

Colorcrete®	CHARACTERISTICS	FIELDS OF APPLICATION
Colorcrete® is a multi-functional admixture for the production of high-quality concrete products from earth-moist concrete.	› minimization of primary and secondary efflorescence › intensified color effect › good side and surface sealing › greatly reduced tendency for sticking › reduced water absorption	Production of concrete block products from earth-moist concrete such as: › pavers › curbs › slabs › embankment stones › palisades › and many others

PLASTOLITH	CHARACTERISTICS	FIELDS OF APPLICATION
PLASTOLITH A is a multi-functional special admixture used for the pro-cessing of earth-moist concrete into top-quality concrete products.	› reduces efflorescence › has strong plastification effect › higher density of concrete blocks › improves freeze/thaw resistance › reduces capillary absorption of water or deicing salts › reduces adhesive on machine stamps	Production of concrete block products from earth-moist concrete such as: › paving stones in accordance with EN 1338, DIN 18501 › curbstones in accordance with EN 1340 › paving slabs in accordance with EN 1339 › non-standardized concrete products
PLASTOLITH OptiCem® HS is a high performance admixture for optimisation of the cement content and minimizing efflorescence potential in zero-slump mixes for concrete products, such as pavers, kerbs, slab etc.	› synthetic high-performance plasticizer with colour enhancing › efflorescence reducing › water repellent components › dense sides and surface › strength increase with possibility of cement reduction	PLASTOLITH OptiCem® HS is successfully used for simultaneous optimisation of quality and cost of concrete mixes for the production of: › paving stones acc. to EN 1338, slabs acc. to EN 1339 › kerbstones acc. to EN 1340 › retaining wall stones › and many others
PLASTOLITH OptiDur is a ready-to-use additive for the optimization of freeze/thaw resistance or weather resistance of directly demoulded concrete products from earth-moist concrete.	› achievement of very high freeze and thaw resistance › minimization of capillary water absorption	PLASTOLITH OptiDur is successfully used for for the production of: Concrete products with high freeze and freeze/thaw resistance and weathering resistance › concrete paving stones in accordance with EN 1338 › curbstones in accordance with EN 1340 › edge stones, › edge stones, etc.

PAVELITH®	CHARACTERISTICS	FIELDS OF APPLICATION
PAVELITH® VM 201 features a well-balanced combination of the positive properties of plasticizers and waterproofing agents and is distinguished by its remarkable anti-adhesive properties.	› enhanced color brilliance › reduced tendency towards lime efflorescence and ferrous efflorescence/discoloration › very good anti-adhesive effect › allows for the creation of an optimal moisture content in concrete face mixes › improved filling properties › reduced shrinkage cracks in face mix concrete › very good surface and side sealing	Can be successfully used for the production of all concrete block products made of earth-moist concrete, such as paving stones, slabs, embankment stones, palisades, etc.
PAVELITH® KB 210 has been especially developed for the production of colored concrete block products from earth-moist concrete and combines multiple mechanisms. The water-absorption and post-treatment mechanism causes a reaction in the concrete, reducing the capillary transport of lime hydrate to the concrete surface.	› minimization of primary and secondary efflorescence › intensifies the color effect and improves color stability › has a well-balanced plasticizing effect as a result › improved filling properties › enhanced leak-tightness › increased strength › good side and surface sealing › reduced tendency for sticking	Can be successfully used for the production of all concrete block products made of earth-moist concrete, such as paving stones, slabs, embankment stones, palisades, etc.

PAVELITH®	CHARACTERISTICS	FIELDS OF APPLICATION
PAVELITH® AP 15 minimizes efflorescence on concrete block products and enhances color brilliance. It allows for the creation of an optimal moisture content and at the same time, reduces the sticking of the concrete to the stamp.	› reduced tendency towards lime efflorescence and ferrous efflorescence/discoloration › enhanced color brilliance › provides a good anti-adhesive effect › provides a very good surface and side finish › reduced shrinkage cracks in face mix concrete	PAVELITH® AP 15 can be successfully used in the production of any directly demolded concrete block product from earth-moist concrete, such as: › paving stones › curbstones (face mix concrete) › embankment stones and plant rings › slabs › palisades and more.
PAVELITH® AP30-P2 reduces the surface tension of the mixing water and causes faster and more intensive wetting of aggregates, cement and additives (e.g. fly ash or similar pozzolanic substances). The cement and pozzolanic particles are dispersed and are fully available for strength bonding.	› higher early and final strengths › 10-15% cement savings or higher proportion of pozzolanic additives (e.g. fly ash) › high impermeability › Higher resistance to frost and de-icing salt › Protection against efflorescence › No sticking to the machine stamp, even with relatively moist mixtures	PAVELITH® AP 30-P2 is used in all prefabricated concrete components made of earth-moist concrete. These include › Paving stones › slabs › kerbstones › garden stones › Wall stones made of pumice, LAVA, LECA, etc.

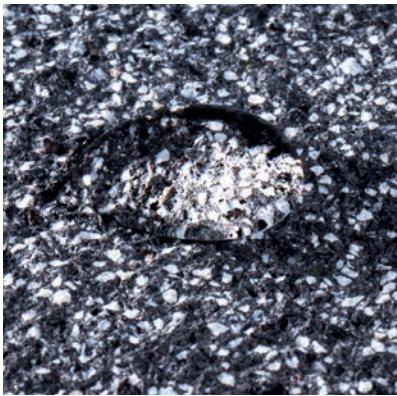
WATER-REPELLENT AND EFFLORESCENCE CONTROL ADMIXTURE

PLASTOLITH | ALPHALITH® | COLORMENT® | PAVELITH®

Our admixture formulations with waterproofing, plasticizing, efflorescence-reducing, and color-intensifying properties will impress.

Depending on the application and task set, we offer a selection of admixtures with specific properties.

Waterproofing and concrete block treatments improve the quality of your concrete block products.



Bearding effect

PLASTOLITH	CHARACTERISTICS	FIELDS OF APPLICATION
PLASTOLITH HP3 is a hydrophobic admixture for all kinds of concrete products made from zeroslump concrete, esp. those with colour pigments.	› reduction of primary- and secondary efflorescence › colour-intensifying › improvement of compaction and strength	PLASTOLITH HP3 may be used in any concrete products made from zero-slump concrete, e.g. concrete paving blocks, tamping flags, landscaping and gardening products like palisades, plant stones etc.
PLASTOLITH HP5 is a water-repellent and efflorescence control admixture for concrete products, especially those made of coloured concrete.	› reduction of primary and secondary efflorescence › reduction of water absorption › improved colour performance	PLASTOLITH HP5 may be successfully used in the manufacture of concrete products made of zero-slump concrete as well as in concrete mixes made of slump concrete like slabs (hermetic process) or wetcast concrete products.
PLASTOLITH OptiPave 2 is a multifunctional admixture for the production of high-quality concrete products made of zero-slump concrete by vibro-press process.	› higher compressive strength, bending tensile strength and splitting tensile strength › intensification of the colour brilliance and colour stability › minimization of primary and secondary efflorescence › reduction of capillary and atmospheric water absorption › improvement of weather resistance	PLASTOLITH OptiPave 2 is preferably used in the production of high-quality paving stones and paving slabs.
PLASTOLITH OptiPave 4 is an innovative multi-functional admixture for the production of top-quality concrete block products from earthmoist concrete the vibro-compaction and pressing process.	› enhanced compression, tensile and bending strength › intensifies the color effect and color stability › minimization of primary and secondary efflorescence › reduced capillary and atmospheric water absorption › improved weather resistance	PLASTOLITH OptiPave 4 is primarily used in top-quality paving and slab systems.
PLASTOLITH OptiPave 5 is an innovative multi-functional admixture for the production of topquality concrete block products from earth-moist concrete the vibro-compaction and pressing process. PLASTOLITH OptiPave 5 is the combination of a highly effective plasticizer and special waterproofing components.	› enhanced compression, tensile and bending strength › intensifies the color effect and color stability › minimization of primary and secondary efflorescence › reduced capillary and atmospheric water absorption › omproved weather resistance	PLASTOLITH OptiPave 5 is primarily used in top-quality paving and slab systems.

COLORMENT®	CHARACTERISTICS	FIELDS OF APPLICATION
COLORMENT® HS FC is a hydrophobic and plasticizing coating for concrete block products.. COLORMENT® HS F was developed for the production of high-quality slabs and pavers from earth-moist concrete using the vibro-pressing process. COLORMENT® HS FC is a combination of special hydrophobic sealants with very effective plasticizing additives.	› reduced atmospheric water absorption with beading effect on the surface › increased color brilliance › reduced efflorescence › imprevement of mould filling and compaction › increased strength	COLORMENT® HS FC can be used in the production of all concrete block products made of earth-moist concrete, such as: › pavers › slabs › embankment Blocks › palisades › and many others

ALPHALITH®	CHARACTERISTICS	FIELDS OF APPLICATION
ALPHALITH® Block-Mix water-repellent admixture with plasticizing effect for concrete masonry blocks.	› protection from driving rain and moisture penetration › high density › improvement of mould filling and compaction › reduced efflorescnce	For high quality exposed concrete masonry units and other concrete block products with minimized atmospheric water absorption.
ALPHALITH Duraphob® HC (DM) ALPHALITH Duraphob® HC is a highly effective and concentrated water repellent agent for concrete. It's preferably added to face concrete of high quality, often surface treated and subsequently impregnated or sealed concrete products. The water repellent effect of alphalith Duraphob® HC leads to a long-lasting hydrophobicity. The water vapor permeability is maintained.	› very strong water-repellent effect › reduction of caillary water absorption and atmospheric water absorption › minimizes efflorescence	For concrete block products being coated.
ALPHALITH Duraphob® (DM) is a ready-to-use water repellent admixture for concrete and mortar. ALPHALITH Duraphob® (DM) minimizes the capillary water absorption and protects from rain, rising moisture, surface water and other entrainment of moisture. ALPHA-LITH Duraphob® (DM) significantly reduces efflorescence of concrete products.	› strong water-repellent effect › minimizes capillary/atmospheric water absorption › minimizes efflorescence	Concrete products such as: › paving stones › slabs › kerbs › retaining-wall blocks › building blocks › and many others Concrete products with protection against: › rain › surface water › rising moisture › and many others
ALPHALITH Duraphob® SH is a highly effective water repellent admixture for the production of concrete block products.	› high density of the capillary structure › minimizes capillary/atmospheric water absorption › minimizes efflorescence	Can be used in all high-quality concrete block products, mainly for facing concrete of pavers and slabs. In concrete block products that are finished with impregnations, sealers or coating systems, the use of ALPHALITH Duraphob® SH is a decisive component of the concrete optimization to be applied.

ALPHALITH®	CHARACTERISTICS	FIELDS OF APPLICATION
ALPHALITH Duraphob® LS is a ready-to-use water repellent admixture for concrete and mortar.	› increases the surface tension in the capillaries and blocks the capillaries with water repellent substances › water suction in the capillaries is reduced to a minimum and the entrainment of water into the concrete or mortar is significantly blocked › the migration of calciumhydroxide to the concrete surface and thus the occurrence of efflorescence are minimized › improves the weather resistance of concrete products	Concrete products such as: › paving stones › slabs › kerbs › retaining-wall blocks › building blocks › and many others Concrete products with protection against: › rain › surface water › rising moisture › and many others
ALPHALITH Duraphob® M is a waterproofing sealant for the effective reduction of the water absorption of concrete block products ALPHALITH Duraphob® M minimizes capillary water absorption and protects against rising moisture levels and other ingress of moisture into the concrete.	› strong water-repellent effect › minimizes capillary/atmospheric water absorption › minimizes efflorescence	Can be used successfully in all concrete block products, such as › paving stones › slabs (pressed or cst) › bricks › drystone Systems › roof tiles › and many others
ALPHALITH Duraphob® CF HC (DM) is a highly concentrated hydrophobic coating for colored concrete products. ALPALITH Duraphob® CF HC (DM) provides high impermeability of the concrete structure and internal sealing of the capillary system with hydrophobic substances. The product is used in the production of colored precast concrete products and colored concrete block products.	› minimizes primary and secondary efflorescence › intensification of color effect and color stability › reduces atmospheric water absorption	› ALPHALITH Duraphob® CF HC (DM) can be used for the production of coloured precast concrete elements and concrete block products.
ALPHALITH® Duraphob E is a ready-to-use water repellent admixture for the manufacture of concrete products. It minimizes the capillary water absorption and protects from rain, rising moisture, surface water and other entrainment of moisture. ALPHALITH Duraphob® E significantly reduces efflorescence of concrete products.	› strong water repellent effect › reduction of capillary water absorption › minimizes efflorescence	Concrete products such as: › paving stones › slabs › kerbs › retaining-wall blocks › building blocks › and many others Concrete products with protection against: › rain › surface water › rising moisture › and many others

PAVELITH®	CHARACTERISTICS	FIELDS OF APPLICATION
PAVELITH® AP 250 was especially developed for the manufacture of top-quality paving stones, bricks and other concrete block products with minimized atmospheric water absorption.	› water-repellent effect with long-lasting resistance to moisture penetration › higher strength › reduced efflorescence › uniform and smoothe surface structure without disturbing cement stains	For top-quality paving stones, bricks and other concrete block products with minimized atmospheric water absorption.
PAVELITH® AP 500 was especially developed for the manufacture of top-quality paving stones, bricks and other concrete block products with minimized atmospheric water absorption.	› remarkable water-repellent effect › increasedstrength › reduced efflorescence tendency › uniform surface structure	For top-quality paving stones, bricks and other concrete block products with minimized atmospheric water absorption.
PAVELITH® AP 600 has been especially developed for the production of colored concrete block products made of earth-moist concrete and combines multiple mechanisms. The water-absorption mechanism reduces the capillary transport of lime hydrate to the concrete surface. The plasticizing agents provide a dense concrete structure with very good side and surface sealing and minimized tendency for sticking.	› intensified color effect › improved color stability › enhanced color brilliance › minimized primary and secondary efflorescence › reduced atmospheric water absorption › very good side and surface sealing › greatly reduced tendency for sticking	Can be successfully used in concrete block products made of earth-moist concrete, such as: › paving stones › slabs › gardening products › wet-cast products



CONCRETE ADMIXTURES FOR CONCRETE-PRECAST INDUSTRY AND FOR READY-MIX-CONCRETE INDUSTRY

CONCRETE PLASTICIZER AND CONCRETE SUPERPLASTICIZER

ALPHALITH® Plasticizer (FM) EN 934-2, T.3 1, 3.2

ALPHALITH® Concrete superplasticizer (BV) EN 934-2, T.2

We offer a wide range of high-performance admixtures for the production of precast concrete components as well as for ready-mixed and construction concrete. ALPHALITH® concrete superplasticizers and plasticizers allow for the production of cost-optimized top-quality concrete in all consistency, strength and exposure classes.

ALPHALITH® high-performance superplasticizers are used in the production of precast parts made of reinforced and prestressed concrete with the highest early and final strengths, as well as top-quality exposed concrete. Superplasticizers are used in conventional manufacturing processes as well as in highly-flowable and self-compacting concrete (SCC).

ALPHALITH® admixtures have proven to be effective in the production of ready-mixed and construction site concrete with the highest requirements, such as high-strength concrete up to C100/115.

The use of our superplasticizers from the ALPHALITH® series leads to a significant increase in consistency and/or a reduction in w/c value. See for yourself: the diverse application possibilities of our superplasticizers will impress you.

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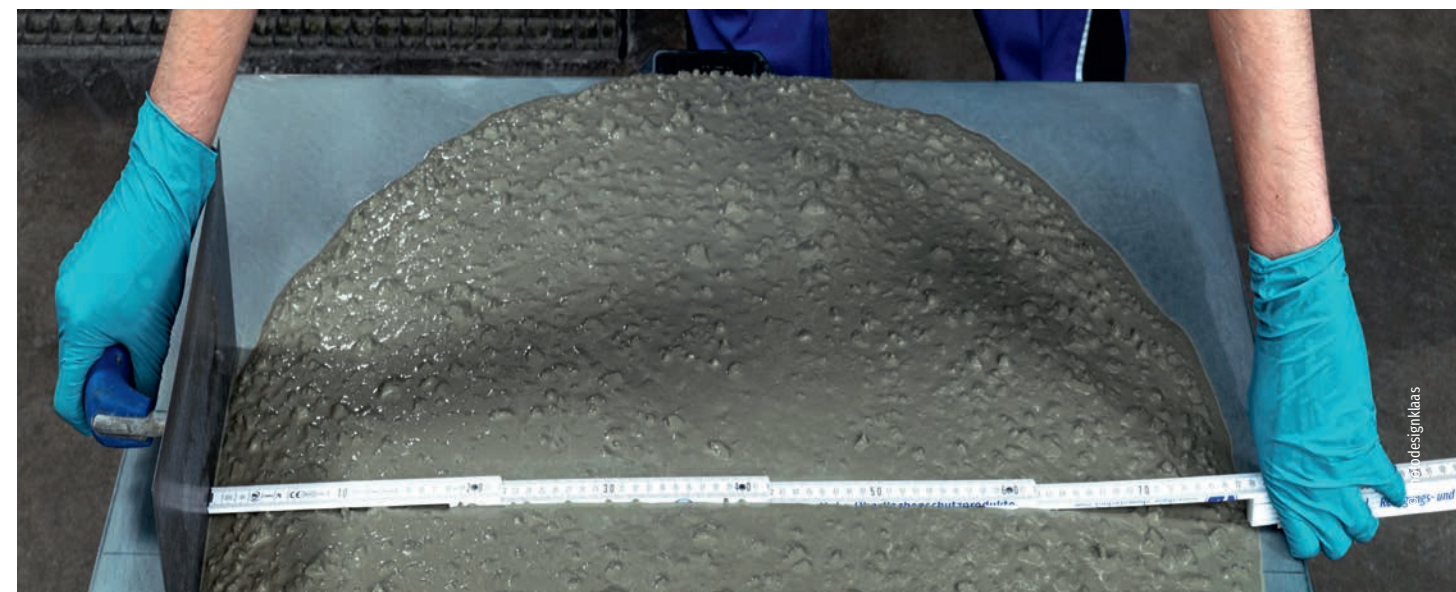
ALPHALITH	CHARACTERISTICS	FIELDS OF APPLICATION
ALPHALITH® FTB (FM) is an effective superplasticizer for the economical production of high quality concrete in ready-mix and precast applications. ALPHALITH® Superplasticizer FTB FM causes a powerful dispersion of the cement particles and reduces the internal frictional forces of the concrete mixture. This leads to a high degree of flowability, workability and homogeneity. It does not entrain any additional air.	› strong increase of workability or reduction of w/c ratio › homogeneous concrete › high early strength increase	ALPHALITH® FTB (FM) is used for the economical production of: › concrete and reinforced concrete EN 206, DIN 1045 › concrete with high resistance against chemical attack › concrete with high frost-thaw-resistance › concrete with very high early- and final strength › precast concrete elements of all types made of unreinforced or loosely reinforced concrete › prestressed concrete
ALPHALITH® FT 30 (FM) is an effective superplasticizer for the economical production of high quality concrete in ready-mix and precast applications. ALPHALITH® Superplasticizer FTB FM causes a powerful dispersion of the cement particles and reduces the internal frictional forces of the concrete mixture. This leads to a high degree of flowability, workability and homogeneity. It does not entrain any additional air.	› strong increase of workability or reduction of w/c ratio › homogeneous concrete › high early strength increase	ALPHALITH® FT 30 (FM) is used for the economical production of: › concrete and reinforced concrete EN 206, DIN 1045 › concrete with high resistance against chemical attack › concrete with high frost-thaw-resistance › concrete with very high early- and final strength › precast concrete elements of all types made of unreinforced or loosely reinforced concrete › prestressed concrete
ALPHALITH® FT 30 (LV) is a highly concentrated, very effective superplasticizer with purely synthetic active ingredients for the economical production of high quality concrete and high performance concrete in the precast or ready-mix plant and on site.	› very high plasticizing and watersaving properties › water reduction of up to 35 per cent › high early and final strength › good homogeneity of the mix › none additional air entrained › slight retardation of set, no retardation of hardening	Concretes with special properties, e.g.: › water-unpermeable concrete, › high resistance against chemical attack › high frost-thaw-resistance › underwater concrete
ALPHALITH® Hyperflow 1030 (FM) is a superplasticizer with a very strong plasticizing effect and a particularly short mixing time, combined with very high early strength and consistency retention even at higher temperatures.	› excellent plasticizing properties › high increase of early strength	ALPHALITH® Hyperflow 1030 (FM) is used for the economical production of: › Precast fair-faced concrete elements › Self-compacting concrete (SCC) › Early high-strength concretes in consistencies F1-F6 › Early high-strength prestressed concretes › Concretes with long consistency retention › Concretes with very low w/c ratios and high workability consistency
ALPHALITH® Hyperflow 1031 (FM) is a superplasticizer with a very strong plasticizing effect and a particularly short mixing time, combined with very high early strength and consistency retention even at higher temperatures.	› excellent plasticizing properties › high increase of early strength	ALPHALITH® Hyperflow 1031 (FM) is used for the economical production of: › exposed precast concrete with low or no compaction effort › self-compacting concrete (SCC) › early high-strength concretes in consistencies F1-F6 › early high-strength prestressed concrete › concretes with very low w/c ratios and high workability consistency › high-strength concrete (= C55/67)



ALPHALITH®	CHARACTERISTICS	FIELDS OF APPLICATION
ALPHALITH® Hyperflow 2000 (FM) is a superplasticizer of the new generation of PCE polymers with a performance exceeding the well-known melamine- and naphtalene-based superplasticizers by far.	› very strong increase of workability and/or reduction of w/c-ratio with low dosages required › excellent flowability also with high powder contents and use of silicafume	ALPHALITH® Hyperflow 2000® (FM) is used for the economical production of: › self-Compacting Concrete (SCC) › high-Strength Concrete (HSC) › high-Slump Concrete with extremely low watercement-ratio › concrete with very high early- and final strength › production of precast elements with high-quality surface Finish
ALPLHALITH® Hyperflow 2020 (FM) is a superplasticizer of the new generation of PCE polymers with a very strong plasticizing action, high early strength development and moderate slump-loss for precast and ready-mix applications.	› strong increase of workability and/or reduction of w/c-rato with low dosages required › excellent flowability also with high powder contents and use of silicafume.	ALPHALITH® Hyperflow 2020 (FM) is used for the economical production of: › concrete with very high early- and final strength › production of precast elements with highquality surface finish › high-Slump Concrete with very low watercement-ratio › self-Compacting Concrete (SCC) › high-Strength Concrete (HSC)
ALPHALITH® Hyperflow 2025 LS (FM) is a superplasticizer of the new generation of PCE polymers with a very strong plasticizing action along with high early strength development and an extended slump retention with approval for the drinking water sector.	› very strong increase of workability and/or reduction of w/c-ratio › good slump etention › high early strength development	ALPHALITH® Hyperflow 2025 LS (FM) wis used for the economical production of: › high early strength concrete in slump classes F1-F6 › high early strength prestressed concrete › concrete with very low w/c values and high slump › concrete with extended slump retention › production of exposed concrete precast elements with low or no compression effort › self-compacting concrete (SCC) › high-strength concrete (≥ C55/67) › prestressed concrete › concrete for drinking water applications
ALPHALITH® Hyperflow 2030 (FM) is a superplasticizer of the new generation of PCE polymers with a very strong plasticizing action, very high early strength development and moderate slump-loss for precast and ready-mix applications.	› very strong increase of workability and/or reduction of w/c ratio › very strong plasticizing effect even with high amounts of fines › high increase of early strength	ALPHALITH® Hyperflow 2030 (FM) is used for the economical production of: › concrete with very high early- and final strength › production of precast elements with highquality surface finish › high-slump concrete with very low watercement-ratio › self-compacting concrete (SCC) › high-strength concrete (HSC)

ALPHALITH®	EIGENSCHAFTEN	EINSATZGEBIETE
ALPHALITH® Hyperflow 2030 LS (FM) is a superplasticizer of the new generation of PCE polymers with a very strong plasticizing action, high early strength development and an extended slump retention for precast and ready-mix applications.	› very strong increase workability and/or reduction of w/c-ratio › very strong plasticizing effect even with high amounts of fines › high increase of early strength	ALPHALITH® Hyperflow 2030 LS (FM) is used for the economical production of: › concrete with very high early- and final strength › production of precast elements with highquality surface finish › high-slump concrete with very low watercement-ratio › self-compacting concrete (SCC) › high-strength concrete (HSC)
ALPHALITH® Hyperflow 2060 (FM) is a superplasticizer of the new generation of PCE polymers with a very strong plasticizing action, high early strength development and an extended slump retention for ready-mix and precast-applications.	› very strong plasticizing effect › very strong increase of workability › PCE based	ALPHALITH® Hyperflow 2060 (FM) is used for the economical production of: › ready-mix concrete (F3-F6) › precast concrete with extended workability › high-slump concrete with low water-cementratio › concrete with high early- and final strength › self-compacting concrete (SCC) › high-strength concrete (HSC)
ALPHALITH® Hyperflow 3035 (FM) s a superplasticizer of the new generation of PCE polymers with a combination of high plasticizing effect, high-earlly-strength development and low stickiness of concrete.	› very strong increase of workability and/or reduction of w/c-ratio › high early-strength development › good slump retention › easy to trowel-smooth concrete surface	ALPHALITH® Hyperflow 3035 (FM) is used for the economical production of: › high-Slump concrete with very low watercement-ratio › self-compacting concrete (SCC) › high-workabilty concrete (F5/F6) › high-strength concrete (HSC) › concrete with very high early- and final strength › production of precast elements with highquality surface Finish
ALPHALITH® Hyperflow 4020 VE (FM) is a superplasticizer specially developed for high exposed concrete quality with good initial plasticizing, consistency maintenance and improved early strengths.	› deaerating and liquefying effec › improved exposed concrete qualit › reduced efflorescenc › increased resistance to damaging environmental influences › reduced tendency to soiling	ALPHALITH® Hyperflow 4020 VE (FM) is used for the economical production of: › self-compacting concrete (SCC) › concretes of consistency class F2-F6 › exposed precast concrete with low compaction requirements › ready-mixed concrete and prestressed concrete › Concretes with very low w/c ratios and high slump Consistency

ALPHALITH®	CHARACTERISTICS	FIELDS OF APPLICATION
ALPHALITH® Hyperflow 4035 (FM) is a superplasticizer of the new generation of PCE polymers with highest efficiency and highest early-strength development.	› very strong increase of workability and/or reduction of w/c ratio › very high early-strength development › moderate slump retention	ALPHALITH® Hyperflow 4035 (FM) is used for the economical production of: › high-slump concrete with very low watercement-ratio › self-compacting concrete (SCC) › high-workability concrete (F5/F6) › high-strength concrete (HSC) › concrete with very high early- and final strength › production of precast elements with highquality surface finish › pre-stressed concrete
ALPHALITH® Hyperflow 5135 (FM) is a superplasticizer for universal applications with very quick strong plasticizing action and solid slump retention. It enables the production of durable concrete with high early strength development in slump classes F1-F6 and SVB.	› good/simplified smoothing behavior › reduced viscosity of the concrete › reduced tendency for skinning › stability even with fluctuating water dosing	ALPHALITH® Hyperflow 5135 (FM) is used for the economical production of: › production of precast components of any kind › easy-to-process, less viscous concrete › production of top-quality exposed concrete › high early strength concrete in slump classes F1-F6 and high early strength prestressed concrete › ready-mixed concrete › self-compacting concrete (SCC) › high-strength concrete (C55/67)
ALPHALITH® Hyperflow 6020 VE (FM) is a superplasticizer specially developed for high exposed concrete quality with good initial plasticizing action, slump retention and high early strength development at the same time.	› enhanced quality of exposed concrete › increased resistance against damaging environmental influences › reduced efflorescence tendency › lower soiling tendency	ALPHALITH® Hyperflow 6020 VE (FM) is used for the economical production of: › self-compacting concrete (SCC) › F2-F6 slump class concrete › precast concrete › ready-mixed concrete › concrete with very low w/c values and high slump



Excerpt from our product range

NEOFLOW	CHARACTERISTICS	FIELDS OF APPLICATION
NeoFlow CK-135 (FM) is a superplasticizer with quick strong plasticizing action and solid slump retention. NeoFlow CK-135 enables the production of durable concrete with high early strength development in slump classes F1-F6 and SVB.	› good/simplified smoothing behavior › reduced viscosity of the concrete › reduced tendency for skinning › stability even with fluctuating water dosing	› production of precast components of any kind › easy-to-process, less viscous concrete › production of top-quality exposed concrete › high early strength concrete in slump classes F1-F6 and high early strength prestressed concrete › ready-mixed concrete › self-compacting concrete (SVB/SCC) › high-strength concrete (C55/67)
NeoFlow 231 SE (FM) NeoFlow 231 SE (FM) facilitates the production of flowable, low-viscosity concrete that can be placed with minimal or, with appropriately adjusted composition, no compaction effort. Concrete produced with NeoFlow 231 SE (FM) exhibits high early strengths and maintains minimal slump loss for up to 1.5 hours. When properly designed, the mix ensures excellent stability.	The lasting plasticizing effect of NeoFlow 231 SE (FM) is achieved by a specially developed formulation with a multifunctional effect on the cement dispersion.	› high-performance ready-mix, site-mix, and precast concretes with reduced viscosit › self-compacting concrete (SCC) › highly workable concrete (HWC), F6-grade concrete › high-strength concrete (C55/67) › concretes with ultra-low water-to-cement (w/c) ratios and excellent workability › exposed architectural precast elements, with minimal or no compaction as SCC › prestressed concrete
ALPHALITH® CONCRETE PLASTICIZERS	CHARACTERISTICS	FIELDS OF APPLICATION
ALPHALITH® Concrete Plasticizer 2 (BV) is a highly effective, liquid concrete plasticizer and water-reducing agent, based on a high grade lignosulphonic acid derivative. When ALPHALITH® Concrete Plasticizer 2 BV is added to the mix, it is adsorbed onto the cement particles and gives a powerful deflocculating action. The cement hydration reaction proceeds more efficiently with less water, resulting in a significant increase in strength or the possibility to reduce cement content of concrete.	› high increase of consistency and/or w/c-reduction › gives homogeneous concrete with good workability	ALPHALITH® 2 (BV) is used for the economical production of: › quality concrete of all grades › impermeable concrete › concrete with large reinforcement › blocks, slabs, curbstone, pipes etc.

ADDITIONAL PRODUCTS FOR THE PRECAST CONCRETE INDUSTRY AND FOR READY-MIXED AND CONSTRUCTION CONCRETE

Air-entraining Agent | Concrete Retarder | Accelerator of Hardening | Concrete Stabilizers/Viscosity Modifiers | Shrinkage Reducing Admixtures | Air-detraining Agent | Smoothers | Post-Treatment/Curing Agents

All products from our range are subject to ongoing production inspections and are audited by external institutes.

We can supply you with all the admixtures you need for the economical and quality-optimized production of concrete.

Our experienced concrete engineers (VDB) and consultants in the field will help you with:

- › Choosing the right products for the intended purpose
- › Conducting suitability tests in the laboratory or in the plant
- › Development of company-specific solutions.

Professional service that is quickly available to every customer has always been an integral part of the performance of Rhein-Chemoteknik GmbH. With our comprehensive service, we offer our customers top safety, quality, and cost-effectiveness.

We guarantee you a punctual and reliable material planning for your products. We make a significant contribution to environmental protection by delivering products in road tankers and recyclable loan containers.

every from our product range

ALPHALITH® AIR-ENTRAINING AGENTS

CHARACTERISTICS

ALPHALITH® Micorpor 95 (LP)

is a liquid, resin-based air entraining agent. Its concentration allows an exact dosage in order to achieve constant contents of air bubbles. ALPHALITH® Micorpor 95 LP generates small and stable air bubbles in the concrete, which act as ball bearings in the fresh concrete, thus improving workability. The air bubbles also act as a substitute for lacking fines in the aggregate.

In the hardened concrete the micropores formed by the air bubbles interrupt the capillary water suction and hence reduce the capillary water suction of the concrete. Freezing water is allowed to expand into the micropores. This leads to a substantial improvement of frost-thaw-resistance.

- › creates a system of stable micropores of defined size and distribution in concrete
- › increases flexibility
- › improves workability

ALPHALITH® Micorpor S (LP)

is a liquid, resin-based air entraining agent. Its concentration allows an exact dosage in order to achieve constant contents of air bubbles. ALPHALITH® Micorpor S LP generates small and stable air bubbles in the concrete, which act as ball bearings in the fresh concrete, thus improving workability. The air bubbles also act as a substitute for lacking fines in the aggregate.

In the hardened concrete the micropores formed by the air bubbles interrupt the capillary water suction and hence reduce the capillary water suction of the concrete. Freezing water is allowed to expand into the micropores. This leads to a substantial improvement of frost-thaw-resistance.

- › creates a system of stable micropores of defined size and distribution in concrete
- › increases flexibility
- › improves workability

ALPHALITH® Micorpor T (LP)

is used in concretes that come into contact with frost and de-icing Salt. The areas of application are therefore in road and bridge construction, in the manufacture of concrete products (e.g. stair embankments) and wherever the workability of low-powder contents mixtures is to be improved.

In the hardened concrete the micropores formed by the air bubbles interrupt the capillary water suction and hence reduce the capillary water suction of the concrete. Freezing water is allowed to expand into the micropores. This leads to a substantial improvement of frost-thaw-resistance.

- › increase of freeze-thaw resistance
- › creates a system of stable micropores of defined size and distribution in concrete
- › for precast elements (barrier walls, steps, etc.)
- › improves workability and reduced bleeding
- › recommended for combination with PCE-based superplasticizers



ALPHALITH®
CONCRETE RETARDER

CHARACTERISTICS

ALPHALITH® 1 (VZ) is a liquid, concentrated retarder based on selected inorganic active ingredients. ALPHALITH® Concrete Retarder 1 VZ provides a good reproducibility of retardation under given conditions.	› retardation of set and hardening › retardation of up to about 24 hours › good reproducibility of retardation times with a given mix › increased final strength › reduced temperature peaks of heat of hydration › reduced tendency towards cracking
ALPHALITH® 150 (VZ) is a liquid, concentrated retarder based on selected inorganic active ingredients. The exclusive use of defined chemicals in a consistent combination, coupled with continuous production and quality control, ensures consistent quality and good reproducibility of test results once obtained under constant conditions.	› retardation of set and hardening › retardation of up to about 24 hours › good reproducibility of retardation times with a given mix › increased final strength › reduced temperature peaks of heat of hydration › reduced tendency towards cracking

ALPHALITH®
ACCELERATOR OF HARDENING

CHARACTERISTICS

ALPHALITH® 3 (BE) is a chloride-free accelerator of hardening for the production of non-reinforced concrete products. ALPHALITH® Accelerator 3 BE gives an early increase of the rate of reaction of the cement constituents. The formation of the strength-giving hydration phases, esp. C3S and C3A is being accelerated. This results in a substantial increase of early strength. Depending on type and composition of cement increases in final strength have been observed.	› accelerates the rate of hydration of cement › significantly increases early strength while maintaining final strength
ALPHALITH® Accel 100 (BE) is a new -generation accelerator of hardening based on CSH-nanocrystal seeds, designed to accelerate the rate of hardening of concrete at a very early stage of hydration.	› considerably increased turnover of formwork in Concrete precast production › considerably reduced or eliminated heat curing or steamcuring › reduced CO2-emission › allows reduction of cement content, use of lower grade cement or higher amount of cement substitutes, e.g. flyash or limestone powder › concreting at low ambient temperatures › early attaining of 5 N/mm² minimum strength for frost resistance of concrete › improved durability, e.g. by reduced water absorption and improved density of concrete
ALPHALITH® Accel 200 (BE) is a nitrate-free new-generation accelerator of hardening based on CSH-nanocrystal seeds, designed to accelerate the rate of hardening of concrete at a very early stage of hydration.	› considerably increased turnover of formwork in Concrete precast production › considerably reduced or eliminated heat curing or steamcuring › reduced CO2-emission › allows reduction of cement content, use of lower grade cement or higher amount of cement substitutes, e.g. flyash or limestone powder › concreting at low ambient temperatures › early attaining of 5 N/mm² minimum strength for frost resistance of concrete › improved durability, e.g. by reduced water absorption and improved density of concrete

ALPHALITH®
ACCELERATOR OF HARDENING

CHARACTERISTICS

ALPHALITH® Accel F-300 (BE) is a liquid setting accelerator and antifreeze for concrete. Significant increases in early strength development are achieved especially at low hardening temperatures. Fiel of Application: › precast concrete parts › sliding formwork concrete › concreting work in cold weather The product is not approved for use in prestressed concrete.	ALPHALITH® Accel F-300 (BE) accelerates the initial setting of the concrete and at the same time lowers the freezing point of the water in the concrete. This provides but is not limited to the following advantages: › faster reloading of formwork › energy savings thanks to reduced heat treatment
ALPHALITH® Accel 400 (BE) is a nitrate-free new-generation accelerator of hardening based on CSH-nanocrystal seeds, designed to accelerate the rate of hardening of concrete at a very early stage of hydration. During cement hydration the growth of Calcium Silicate Hydrate crystals is significantly accelerated by the crystal growth of synthetic nanocrystals resulting in significant increase of early strength development, in particular also at low curing temperatures. Without negative impact on final strength and durability.	› considerably increased turnover of formwork in Concrete precast production › considerably reduced or eliminated heat curing or steamcuring › reduced CO2-emission › allows reduction of cement content, use of lower grade cement or higher amount of cement substitutes, e.g. flyash or limestone powder › concreting at low ambient temperatures › early attaining of 5 N/mm² minimum strength for frost resistance of concrete › improved durability, e.g. by reduced water absorption and improved density of concrete

ALPHALITH® CONCRETE STABILIZER VISCOSITY MODIFIER		
CHARACTERISTICS	FIELDS OF APPLICATION	
ALPHALITH® F 2 (ST) is an effective stabilizing admixture for mortar and concrete, especially effective in the production of Self Compacting Concrete (SCC) in conjunction with high-performance superplasticizers, like PCEs e.g. The use of ALPHALITH® F 2 ST results in a homogenous concrete mix with minimized segregation and bleeding. With suitable SCC mixes in conjunction with high-end superplasticizer ALPHALITH® Hyperflow type, ALPHALITH® F 2 ST gives a readily-flowing concrete with a good cohesiveness.	› minimized segregation › reduced bleeding › improved homogeneity › improved cohesion › less variation in concrete consistency due to waterbinding capacity › improved, more uniform surface finish	› self-compacting-concrete (SCC) › precast elements with improved surface finish › pumped concrete › anti-washout admix for underwater concrete › concrete with lack of fines/powder
ALPHALITH Viscoton® K is a high quality viscosity modifier for cement-based products. ALPHALITH Viscoton® K results in very stable and homogeneous mixtures with high flowability, especially with high-performance concrete such as self-compacting concrete (SVB) in conjunction with high-performance superplasticizers (e.g. alphasith Hyperflow series).	› bleeding and demixing is effectively prevented › improved homogeneity › higher sedimentation stability (robustness) of SCC › improved fair-faced concrete quality › more even grain distribution on shot-blasted	› concrete that tends to bleed and segregate › self-compacting concrete (SCC) › exposed concrete › blasted special parts

ALPHALITH® SHRINKAGE REDUCING ADMIXTURES		
CHARACTERISTICS	FIELDS OF APPLICATION	
ALPHALITH® SRA 100 is a highly effective additive for reducing the drying shrinkage of concrete and mortar. Compared to conventional shrinkage modifiers, the polymers used in SRA 100 have only a minor effect on the strength formation of cementitious systems.	› effective reduction of surface tension › massive reduction of shrinkage › minimizes cracking tendency	In all cementitious building materials.

ALPHALITH® AIR-DETRAINING AGENTS		
CHARACTERISTICS	FIELDS OF APPLICATION	
ALPHALITH® Porex HC is a special admixture for fast and almost complete detraining of air from concrete. The amount of pores in the concrete is reduced to a minimum. ALPHALITH® Porex HC may not be used in concrete with specified air content, e.g. together with an air-entraining admixture. This will usually result in: › improved surface texture › reduced tendency to efflorescence › reduced tendency to dirt adhesion	ALPHALITH® Porex HC prevents the entrainment of air into the concrete during the process of mixing and placing of concrete, remaining air bubbles are almost completely eliminated. When the concrete is properly designed, placed and compacted the use of ALPHALITH® Porex HC results in a concrete structure with minimized pore content.	ALPHALITH® Porex HC is suitable for the production of: › plates › steps › troughs › components for street furniture › other non-constructional concrete elements
ALPHALITH® Porex FE (BV) is a special admixture for fast and almost complete detraining of air from concrete. The amount of pores in the concrete is reduced to a minimum. ALPHALITH® Porex FE (BV) may not be used in concrete with specified air content, e.g. together with an air-entraining admixture. This will usually result in: › improved surface texture › reduced tendency to efflorescence › reduced tendency to dirt adhesion	ALPHALITH® Porex FE (BV) prevents the entrainment of air into the concrete during the process of mixing and placing of concrete, remaining air bubbles are almost completely eliminated. When the concrete is properly designed, placed and compacted the use of ALPHALITH® Porex FE (BV) results in a concrete structure with minimized pore content.	ALPHALITH® Porex FE (BV) is suitable for the production of: › plates › steps › troughs › components for street furniture › masonry units precast units › concrete with highest exposed concrete quality › highly pigmented concrete mixtures › concretes with tendency to increased pore and foam formation on the filling side
ALPHALITH® Porex DF 50 (BV) is a special admixture for fast and almost complete detraining of air from concrete. The amount of pores in the concrete is reduced to a minimum. ALPHALITH® Porex DF 50 (BV) may not be used in concrete with specified air content, e.g. together with an air-entraining admixture. This will usually result in: › improved surface texture › reduced tendency to efflorescence › reduced tendency to dirt adhesion	ALPHALITH® Porex DF 50 (BV) prevents the entrainment of air into the concrete during the process of mixing and placing of concrete, remaining air bubbles are almost completely eliminated. When the concrete is properly designed, placed and compacted the use of ALPHALITH® Porex DF 50 BV results in a concrete structure with minimized pore content.	ALPHALITH® Porex DF 50 (BV) is suitable for the production of: › slabs › flags › stairs › concrete elements for garden and landscape architecture › other non-constructional concrete elements

ALPHALITH®
SMOOTHERS

CHARACTERISTICS

FIELDS OF APPLICATION

ALPHALITH® Glätthilfe AG is a liquid, ready-to-use additive that is applied to the freshly produced concrete and makes it easier to smooth the concrete surface. At the same time, the drying out of the concrete surface is delayed.	› Smoother for stripped concrete surfaces › temporary protection against fast drying of the concrete surface	The product is applied on fresh concrete surfaces that need to be smoothed.
ALPHALITH® Glätthilfe AG Plus improves the smoothing characteristics of fresh to matt-mo-ist concrete.	› protects the concrete from evaporation › enables an improved hydration process › minimizes the formation of shrinkage cracks › reduces efflorescence › increased concrete resistance to chemical attack › alkali-resistant › solvent-free	› Smoother for concrete e.g. In precast production and on the construction site for concrete of all types. › Production of smooth concrete elements › Smoother for screeds

ALPHALITH®
POST-TREATMENT | CURING AGENTS

CHARACTERISTICS

FIELDS OF APPLICATION

ALPHALITH® CC is a ready-to-use, liquid post-treatment agent on a dispersion base to protect against the drying out of freshly manufactured or freshly demolded concrete. The protective film of the ALPHALITH® CC minimizes water evaporation during the critical setting time of the concrete.	› blocks the capillary pores on the concrete surface › creates a capillary barrier › protects against water loss and drying out › improves durability › prevents shrinkage and crack formation	ALPHALITH® CC wshould be used preferably as a post-treatment agent for: › precast concrete of all kinds › cement-bound screeds › concrete surfaces with and without additional Coating
ALPHALITH® Nachbehandlungsmittel NB1 is a ready-to-use liquid post-treatment agent applied to freshly produced or freshly demolded concrete and protects it as much as possible from drying out.	› blocks the capillary pores on the concrete surface › creates a capillary barrier › protects against water loss and drying out › improves durability › prevents shrinkage and crack formation	ALPHALITH® Nachbehandlungsmittel NB1 is used as a post-treatment agent in concrete construction wherever the quick drying of fresh concrete should be prevented, for example in the following applications: › traffic areas built using concrete: streets, squares › cement-bound screeds › freshly demolded concrete parts › concrete surfaces without any additional Coating
ALPHALITH® Nachbehandlungsmittel NB2 is used as a ready-to-use, dispersion-based liquid curing agent to protect freshly produced or freshly demolded concrete from drying out. The protective film of ALPHALITH® Nachbehandlungsmittel NB2 minimizes the evaporation of water during the critical hardening time of the concrete.	› blocks the capillary pores on the concrete surface › creates a capillary barrier › protects against water loss and drying out › improves durability › prevents shrinkage and crack formation	ALPHALITH® Nachbehandlungsmittel NB2 is used as: › precast concrete parts of all kinds › cement-bound screeds › concrete surfaces with and without further coating

SURFACE PROTECTION PRODUCTS FOR CONCRETE PRODUCTS

IMPREGNATION | SEALING | COATING

For long-lasting durability of concrete block products

Rhein-Chemotechnik GmbH develops surface protection products for the impregnation, sealing and coating of concrete block products. You can have confidence in our decades of experience as a renowned supplier to the concrete block industry.

Our water based products ALPHALITH® StoneTec, ALPHALITH® StoneGloss, ALPHALITH® StoneSeal, and ALPHALITH® StoneCare brands, as well as the UV coatings of the LithoTop® series give your concrete block products:

- › easy to clean surfaces
- › more intense colors
- › increased protection against damaging weather conditions
- › reduced tendency towards greening and contamination
- › sustainable visual improvement in appearance and usability

Our surface protection products are tested in accordance with strict quality specifications in our in-house laboratories and by independent institutes.

Our service-oriented range of services is rounded off by the creation of comprehensive quality guides for the best possible design of the entire process, ranging from the production of blanks to the storage of the final product.

ALPHALITH® IMPREGNATION IMPREGNATION SEALER		CHARACTERISTICS	APPLICATION
ALPHALITH® StoneTec IS-L is applied for oil-, water-, dirt and stainproof impregnation of high-quality concrete products, esp. high-quality pavers and flags. Oil, water and stain forming liquids, like coffee, soft drinks etc. repel on the surface and can be easily removed, e.g. by using an absorptive tissue. The general tendency towards staining of the surface is considerably reduced.		› dirt- and stain-repelling effect towards oiland water-based liquids › reduction of efflorescence › practically no visible changes of the treated concrete surface › possibly slight colour intensification with colored concrete products due to reducedprimary efflorescence › generally reduced tendency towards efflorescence, dirt and staining › easier cleaning of concrete	ALPHALITH® StoneTec IS-L is to be applied onto the hardened concrete products either in the production line before packaging or after placing onto the cleaned and dry concrete products.
ALPHALITH® StoneTec IS super is applied for oil-, water-, dirtand stainproof impregnation of high-quality concrete products, esp. high-quality pavers and flags. Oil, water and stain forming liquids, like coffee, soft drinks etc. repel on the surface and can be easily removed, e.g. by using an absorptive tissue. The general tendency towards staining of the surface is considerably reduced.		› dirt- and stain-repelling effect towards oil- and water-based liquids › reduction of efflorescence › practically no visible changes of the treated concrete surface › possibly slight color intensification with colored concrete products due to reduced primary efflorescence › generally reduced tendency towards efflorescence, dirt and staining › easier cleaning of concrete	ALPHALITH® StoneTec IS super is to be applied onto the hardened concrete products either in the production line before packaging or after placing onto the cleaned and dry concrete products.
ALPHALITH® StoneTec M1 is applied for oil-, water-, dirt- and stainproof impregna- tion of high-quality concrete products, esp. high-quality pavers and flags. Oil, water and stain forming liquids, like coffee, soft drinks etc. repel on the surface and can be easily removed, e.g. by using an absorptive tissue and afterwards cleaning with water and a mild detergent. The general tendency towards staining of the surface is considerably reduced.		› dirt- and stain-repelling effect towards oil- and water-based liquids › reduction of efflorescence › practically no visible changes of the treated concrete surface; › possibly slight colour intensification with colored concrete products due to reduced primary efflorescence › generally reduced tendency towards efflorescence, dirt and staining › easier cleaning of concrete	ALPHALITH® StoneTec M1 is to be applied onto the hardened concrete products either in the production line before packaging or after placing onto the cleaned and dry concrete products
ALPHALITH® StoneTec 100 is used for dirt and stain-repellent impregnation of high-quality concrete stone products, especially high-quality slab and paving stone systems. Water and stain-causing liquids, such as coffee or cola, bead off the surface and can be easily removed. The general tendency for soiling is significantly reduced.		› PFAS-free › water-based › fast-drying and non-sticky › high UV stability › low tendency for efflorescence soiling and greening › easy removal of accumulated dirt and stains	ALPHALITH® StoneTec 100 is to be applied onto the hardened concrete products either in the production line before packaging or after placing onto the cleaned and dry concrete products 
ALPHALITH® StoneTec 100 CD is used for dirt and stain-repellent impregnation of high-quality concrete stone products, especially high-quality slab and paving stone systems. Water and stain-causing liquids, such as coffee or cola, bead off the surface and can be easily removed. The general tendency for soiling is significantly reduced.		› PFAS-free › dirt and stain-repellent effect against oily and aqueous soiling › reduced tendency for efflorescence, soiling, and greening › easy removal of accumulated dirt and stains › color tone intensification	ALPHALITH® StoneTec 100 CD can be applied in the production line on the dry side as well as subsequently on already laid surfaces. For factory application prior to packaging, a drying section is recommended. 

ALPHALITH® IMPREGNATION IMPREGNATION SEALER		CHARACTERISTICS	APPLICATION
ALPHALITH® StoneTec 100 CD GL is used for dirt and stain-repellent impregnation of high-quality concrete stone products, especially high-quality slab and paving stone systems. Water and stain-causing liquids, such as coffee or cola, bead off the surface and can be easily removed. The general tendency for soiling is significantly reduced.		› PFAS-free › dirt and stain-repellent effect against oily and aqueous soiling › reduced tendency for efflorescence, soiling, and greening › easy removal of accumulated dirt and stains › color tone intensification › beading effect	ALPHALITH® StoneTec 100 CD can be applied in the production line on the dry side as well as subsequently on already laid surfaces. For factory application prior to packaging, a drying section is recommended. 
ALPHALITH® SEALING WET SIDE		CHARACTERISTICS	APPLICATION
ALPHALITH® StoneCare FS is applied to high-quality, predominantly colored or surface-treated concrete products, primarily high grade slab and paving blocks, as a color-intensifying and dirt-repellent protective sealant. ALPHALITH® StoneCare FS gives the treated surfaces an increased color brilliance and, depending on the variant, a slight (matt) to clear gloss effect, with enhanced water beading (pearl).		› improved brilliance of colour for coloured and surface treated concrete products › significant improvement of colour stability › silk matt appearance with slight wet effect › minimized efflorescence › reduction of the tendency to attract contamination and algae growth › easier removal of dirt and stains	ALPHALITH® StoneCare FS is to be applied on the wet side directly after pressing or on the dry side with additional drying.
ALPHALITH® StoneGloss S2 is applied primarily to coloured or surface treated concrete products as colour intensifying and stain protecting sealant. The treated surfaces appear significantly more brilliant.		› improved brilliance of colour for coloured and surface treated concrete products › significant improvement of colour stability › silk mat appearance with slight wet effect › minimized efflorescence › reduction of the tendency to attract contamination	ALPHALITH® StoneGloss S2 is to be applied inline immediately after the washing cycle.
ALPHALITH® StoneGloss T is applied primarily to coloured or surface treated concrete products as colour intensifying and stain protecting sealant. The treated surfaces appear significantly more brilliant.		› improved brilliance of colour for coloured and surface treated concrete products › significant improvement of colour stability › silk mat appearance with slight wet effect › minimized efflorescence › reduction of the tendency to attract contamination and algae growth › easier removal of dirt and stains › water based › high UV resistance › high alkaline and water resistance	ALPHALITH® StoneGloss T can be applied onto freshly demoulded concrete and onto hardened concrete surfaces. When applied in the production process after curing ALPHALITH® StoneGloss T needs to be hardened by IR-drying before packaging. Weather resistance testet by BAM (Reference 7.5/27590-1).
ALPHALITH® StoneSeal PA is applied primarily to coloured or surface treated concrete products as colour intensifying and stain protecting sealant. The treated surfaces appear significantly more brilliant. with a slight matt gloss.		› improved brilliance of colour for coloured and surface treated concrete products › significant improvement of colour stability › silk mat appearance with slight wet effect › minimized efflorescence › reduction of the tendency to attract contamination and algae growth › easier removal of dirt and stains	ALPHALITH® StoneSeal PA can be applied after demoulding, suitable for instantly washed surfsces.

ALPHALITH®
SEALING DRY SIDE

CHARACTERISTICS

APPLICATION

ALPHALITH® StoneSeal GLS is used as long-lasting oil, water, dirt and stain repellent impregnating sealant for high grade concrete products, primarily high grade slab and paving blocks, often with surface treatment, like e.g. shot-blasting or curling . Oil- and, water-based liquids that result in staining, such as vegetable oil, machine oil, ketchup, mustard, coffee and soft drinks etc. are repelled on the surface and can be easily removed. This durably intensifies the surface appearance of the sealed products.	› durable dirt and stain repellent effect against oil and water-based soiling › easy removal of dirt and stains › intensification of the surface appearance with a subtle sheen effect › colour intensification with a slight wet look › minimized tendency towards efflorescence, contamination and algae growth › water based › high UV resistance › high alkaline and water resistance	ALPHALITH® StoneSeal GLS is to be applied on the “dry side” of the production line after curing and needs to be hardened by IR-drying before packaging. Weather resistance testet by BAM (Reference 7.5/27590-1).
ALPHALITH® StoneCare NHS GL is an extremely block resistant long-lasting, water-repellent and dirt-repellent sealing agent for top-quality concrete block products.	ALPHALITH® StoneCare NHS GL provides the following benefits: › high block-resistance › prolonged oil-, water-, dirt- and stain-resistant effect › intensified surface appearance with a discreet glossy effect › intensified color tone › reduced tendency towards efflorescence, soiling and greening	ALPHALITH® StoneCare NHS GL is used as long-lasting oil, water, dirt and stain repellent impregnating sealant for high grade concrete products, primarily high grade slab and paving blocks, with surface treatment, like e.g. shot-blasting or curling.
ALPHALITH® StoneSeal NST GL is a color-enhancing, dirt and stain-repellent sealant for high-quality concrete stone products. It is characterized by a fast drying and formation of the protective film.	The long-lasting protective effect with dirt-repellent finish is achieved through a special combination of a high-quality acrylate system and functional additives and results in: › long-lasting dirt and stain-repellent effect › intensification of the surface appearance with a subtle gloss effect › intensification of the color tone, depending on the amount applied › reduced tendency to efflorescence, soiling and greening	ALPHALITH® StoneSeal NST GL is applied primarily to coloured or surface treated concrete products as colour intensifying and stain protecting sealant. The treated surfaces appear significantly more brilliant. ALPHALITH® StoneSeal NST GL can be applied onto freshly demoulded concrete and onto hardened concrete surfaces.
ALPHALITH® StoneSeal Premium HC-W is used as long-lasting oil, water, dirt and stain repellent impregnating sealant for high grade concrete products, primarily high grade slab and paving blocks, often with surface treatment, like e.g. shot-blasting or curling . Oil, water, and staining liquids are repelled on the surface and can be easily removed. This durably intensifies the surface appearance of the sealed products.	ALPHALITH® StoneSeal Premium HC-W provides the following benefits: › durable dirt and stain repellent effect › easy removal of dirt and stains › intensification of the surface appearance with a subtle sheen effect › colour intensification with a slight wet look › minimized tendency towards efflorescence, contamination and algae growth › water based › high UV resistance › high alkaline and water resistance	ALPHALITH® StoneSeal Premium HC HC-W is to be applied on the “dry side” of the production line after curing and needs to be hardened by IR-drying before packaging.

ALPHALITH®
SEALING DRY SIDE

CHARACTERISTICS

APPLICATION

ALPHALITH® StoneSeal UV-FDS ALPHALITH® StoneSeal UV FDW are used as long-lasting oil, water, dirt and stain repellent impregnating sealant for high grade concrete products, primarily high grade concrete block paving, flags and slabs, often with surface treatment, like e.g. shot-blasting or curling. Oil- and water-based liquids that result in staining, such as vegetable oil, machine oil, ketchup, mustard, coffee and cola drinks etc. are repelled on the surface and can be easily removed. This durably intensifies the surface appearance of the sealed products.	› durable dirt and stain repellent effect against oil and water-based contamination › easy removal of dirt and stains › intensification of the surface appearance with a subtle sheen effect › colour intensification with a slight wet look › minimized tendency towards efflorescence, contamination and algae growth › water based › fast-drying (reduction of drying energy) › improved mechanical durability due to additional UV-curing › high alkaline and water resistance	ALPHALITH® StoneSeal UV-FDS UV FDW are to be applied on the “dry side” after curing and needs to be hardened by IR-drying and subsequent UV-curing before packaging. Weather resistance testet by BAM (Reference 7.5/27590-1).
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LithoTop® COATING
BASE-COAT | TOP-COAT

CHARACTERISTICS

APPLICATION

LithoTop® Grundlack HM LithoTop® Decklack HM LithoTop® base-coat HM and LithoTop® top-coat HM are used as transparent base- and top coats for top-quality two-layer concrete block finishings. The two-layer LithoTop® Paint System HM, which includes the LithoTop® base-coat HM and LithoTop® top-coat HM or LithoTop® top-coat RM offers highly effective protection of concrete block products against weather effects, soiling of any type, greening and chemicals. Thanks to the distinct easy-to-clean effect, soiling and spots are significantly easier to remove. The LithoTop® Paint System features high resistance, scratch resistance and durability.	› significantly intensified color tone › very high weather resistance › very good protection against soiling › good chemical resistance › very good crack resistance › good slip resistance	LithoTop® Grundlack HM LithoTop® Decklack HM for tow-layer UV-curing coatings.
LithoTop® UV Primer LithoTop® UV-InterCoat LithoTop® UV-TopCoat The three-layer LithoTop® UV coating system, consisting of LithoTop® UV base coat, LithoTop® UV intermediate coat and LithoTop® UV top coat, offers highly effective protection protection of concrete block products against weathering, contamination of any kind, greening and chemicals. Due to the distinctive easy-to-clean effect soiling and stains are much easier to remove. The LithoTop® UV coating system is characterized by its high durability, scratch resistance and long service life.	› significantly intensified color tone › very high weather resistance › very good protection against soiling › good chemical resistance › very good crack resistance › good slip resistance	LithoTop® UV Primer LithoTop® UV-InterCoat LithoTop® UV-TopCoat for three-layer 100% UV coatings. LithoTop® coatings are applied at the factory on the dry side with active UV curing.

OUR SERVICES IN THE FIELD OF SURFACE PROTECTION TECHNOLOGY

We are your development partner for surface protection products. Our products extend the durability of concrete block products and protect them from external influences. Experienced paint laboratory technicians and chemists develop products that impregnate, seal or coat concrete blocks. Do you need to give your product special properties? Then contact us. We will get the best out of your concrete block!

ADVICE ON PRODUCT SELECTION

We will help you choose the right product.

RECIPE OPTIMIZATION

We support you in optimizing your concrete recipe.

APPLICATION TECHNIQUES

We support you in defining the optimal application for your product.

DEFINING PROCESS PARAMETERS

Together we optimize your processes to realize a reliable application and a robust overall system.

PILOT-PLANT TESTING IN OUR IN-HOUSE LABORATORY

For optimal results, we carry out our own in-house tests in advance.

IMPLEMENTATION OF THE TARGET SYSTEM AT YOUR FACILITY

We support you comprehensively with the introduction of the products in your plant.

RELEASE AGENTS FOR ATTRACTIVE CONCRETE SURFACES

SERIE TECTOL

Our concrete parting agents from the Tectol series help you create attractive and smooth concrete surfaces. tectol includes parting agents for various formwork materials such as wood, plastic, or steel.

We will help you find the right product for various parting tasks, such as:

- › The production of precast concrete parts for building construction and civil engineering
- › In-situ concrete elements
- › Concrete products
- › and much more

The tectol concrete parting agents based on renewable raw materials widely consider the need for the use of environmentally friendly products.

The right release agent is a decisive factor in the reliable production of visually appealing concrete products.

tectol RELEASE AGENTS BASED ON RENEWABLE RAW MATERIALS	CHARACTERISTICS	APPLICATION
tectol Brettöl B is a ready-to-use release and maintenance oil for production boards and production sheets used in concrete block production. The proportion of renewable raw materials is > 95 mass %*.	› ready to use › good separation effect › prevents the caking of concrete blocks on the production boards and sheets › economical usage › > 95 mass %* renewable raw materials	› production boards made of hardwood and softwood › production boards made of plastic › steel production sheets
tectol Emulsion B is a ready-to-use, water-dilutable release emulsion for wooden formwork and production boards used in concrete block production. The product is free from mineral oils and solvents and is suitable for use on conventional wooden production boards.	› very good separation effect › economical usage › easy to apply › > 95 mass %* renewable raw materials	› production boards made of hardwood and softwood › production boards made of plastic › steel production sheets
tectol B-Cast EV-A is a low-viscosity release agent for absorbent and non-absorbent formwork of all types. The product is free from aromatics and has a pleasant odour. The proportion of renewable raw materials is > 85 mass %*.	› easy demoulding › low-viscosity › economic in use › biodegradable › > 85 mass %* renewable raw materials	› all types of absorbent and non-absorbent formwork
tectol Supercast 1100 DE is a ready-to-use high-performance release agent for direct demoulding. The product has been specially developed for the requirements of direct demoulding in precast concrete plants. The proportion of renewable raw materials is > 80 mass %*.	› easy demoulding › reduces pores and shrink holes › high surface qualities › corrosion protection › ready for use › 80 mass %* renewable raw materials	› universally applicable
tectol B-Cast Konzentrat tectol B-Cast Emulsion is a release agent concentrate for absorbent and non-absorbent formwork as well as for the treatment of production boards used in concrete block production. The product is free from mineral oils and solvents. The proportion of renewable raw materials is > 90 mass %. tectol B-Cast Concentrate can be used to produce tectol B-Cast Emulsion.	› economic in use › easy demoulding › results in clean, uniform and almost flawless surfaces › > 90 mass %* renewable raw materials	› all types of absorbent and non-absorbent formwork

tectol RELEASE AGENTS	CHARACTERISTICS	APPLICATION
tectol Trennmittelkonzentrat M is a water-soluble parting agent concentrate proven in practice with an all-purpose application in projects where absorbent, i.e. planed or non-planed wooden formwork, as well as particle boards and fiber material are used in the concrete industry. tectol Trennmittel Konzentrat M guarantees perfect separation of concrete components from the wooden formwork.	› mineral oil-based › very economi in use › easy and fast demoulding › smooth and flawless surfaces	› concrete surfaces on construction sites (in-situ concrete execution) › concrete products which cure on wooden boards › impregnation of prefabricated slabs › construction site formwork › production of exposed concrete › outstanding separation; once the concrete is cured, the release film guarantees easy, quick and clean formwork strippin › smooth pore-free surfaces › no stain formation when used
tectol WTC is a special, ready-to-use, water-based release agent for achieving optimal exposed concrete surfaces in the production of large and small-format precast concrete parts using the wetcast process.	› economical in use › very good release effect › rapid release film formation › no caking	tectol WTC was specially developed for the production of small-format concrete parts such as paving, slabs, steps, etc. using the wetcast process.
tectol Trennemulsion GFC is a release Emulsion concentrate on basis of mineral oil for plane and rough-sawn wooden pallets, as well as for production boards in the concrete industry.	› mineral oil-based › very economic in use › easy and fast demoulding › avoids sticking of the concrete products on wooden and plastic boards and thus defects of the pallets	› for concrete surfaces in the construction area (cast-in-place concrete construction) › boards (wood or plastic) in concrete products manufacturing › for the in-factory impregnation of site formwork (by immersion)
tectol Trennemulsion GF is a release Emulsion concentrate on basis of mineral oil for plane and rough-sawn wooden pallets, as well as for production boards in the concrete industry.	› mineral oil-based › very economic in use › easy and fast demoulding › avoids sticking of the concrete products on wooden and plastic boards and thus defects of the pallets	› for concrete surfaces in the construction area (cast-in-place concrete construction) › boards (wood or plastic) in concrete products manufacturing › for the in-factory impregnation of site formwork (by immersion)
tectol Trennemulsion OK is a ready-to-use label-free release emulsion especially for planed and rough-sawn wood shutterings. In addition, the product is used on boards (wooden and plastic boards) in the concrete block industry.	› mineral oil-based › ready-to-use › very economic in use › easy and fast demoulding	› for concrete surfaces in the construction area (cast-in-place concrete construction) › boards (wood or plastic) in concrete products manufacturing › for the in-factory impregnation of site formwork (by immersion)
tectol Trennmittelkonzentrat OK Concentrate for the preparation of a label-free release emulsion. This emulsion is universally applicable, especially for planed and rough-sawn wood shutterings. In addition, the product is used on boards (wooden and plastic boards) in the concrete block industry.	› mineral oil-based › very economic in use › easy and fast demoulding › uniform and almost flawless surfaces	› for concrete surfaces in the construction area (cast-in-place concrete construction) › boards (wood or plastic) in concrete products manufacturing › for the in-factory impregnation of site formwork (by immersion)

tectol RELEASE AGENTS	CHARACTERISTICS	APPLICATION
tectol Supercast ES 100 is a special water-based, ready-to-use mould release agent for high-quality fair-faced concrete surfaces in the production of large and small-sized precast concrete elements.	› versatile › economical usage › rheology-optimized › suitable for fair-faced concrete › results in almost flawless surface quality › suitable for mould temperatures up to 60°C	› for all usual formworks › steel formworks › film- and plastic-coated plates › polysulfide stencils › ABS coated film Systems as well as PU-moulds
tectol Supercast ES 350 is a special water-based, ready-to-use mould release agent for high-quality fair-faced concrete surfaces in the production of large and small-sized precast concrete elements.	› versatile › economical usage › rheology-optimized › suitable for fair-faced concrete › results in almost flawless surface quality › suitable for mould temperatures up to 60°C	› for all usual formworks › steel formworks › film- and plastic-coated plates › polysulfide stencils › ABS coated film Systems as well as PU-moulds ›

tectol RELEASE AGENTS WITH CLEANING EFFECT	CHARACTERISTICS	APPLICATION
tectol CoatRelease 2 is a ready-to-use special release agent for production boards used in concrete block coating. Preventive treatment of the production boards with tectol CoatRelease 2 significantly reduces the adhesion of factory-applied coating materials. Excess coating material is softened and can therefore be removed more easily. The product is free from mineral oils. The proportion of renewable raw materials is > 75 mass %.	› effective release action › easier removal of coating material overspray › to be applied easily › economical in use › 75 mass %* renewable raw materials	› special release agent for production boards in concrete products coating process For optimal cleaning results, we recommend the we recommend the Crust Cracker® from Weber Bürstensysteme GmbH.
tectol CoatRelease is a ready-to-use, special release agent for production boards in concrete products coating process. The application of tectol CoatRelease before coating concrete products significantly reduces sticking of coating material to the production boards. tectol CoatRelease is free from mineral oils or solvents.	› significantly reduces sticking of sealers or coating on the boards › easy cleaning of the boards from polymer residues › effective release action › to be applied easily › economical in use › readily biodegradable	› special release agent for production boards in concrete products coating process For optimal cleaning results, we recommend the we recommend the Crust Cracker® from Weber Bürstensysteme GmbH.

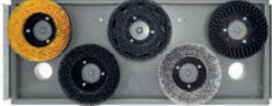


The New Generation of Board Cleaning





Preparing the application of special release agents, we recommend cleaning the production boards with the Crust Cracker®.





Further information and special brushes for concrete block production: www.weberbrushes.com

Excerpt from our product range

*The stated proportion of renewable raw materials is based on a product-specific calculation in mass %. The underlying calculation is available upon request.



tectol RELEASE AGENTS	CHARACTERISTICS	APPLICATION
tectol Supercast 1000 is a special, highly effective release agent, particularly suitable for the direct de-moulding of concrete components. It contains a relevant proportion of oil from natural renewable sources.	› universally applicable › economical in consumption › minimized pore formation › generates clean and even surfaces › includes corrosion protection for use on steel formwork	tectol SuperCast 1000 is used universally applicable, but especially used as a release Agent for direct de-moulding,e.g. in the manufacturing of pipes, manhole rings and cones.
tectol Supercast 3100 Special, ready-to-use mould release agent for high quality fair-faced concrete surfaces in the production of large and small-sized precast concrete elements	› versatile › economical usage › suitable for fair-faced concrete › results in almost flawless surface quality › suitable for mould temperatures up to 60°C	› for all usual formworks › planed timber formworks › steel formworks › film and plastic-coated plates › polysulfide stencils › ABS coated film systems
tectol Supercast 3500 is a universal release agent for all absorbent and non-absorbent moulds. The product may also be used as a mixer protection and machine care oil.	› can be sprayed without disturbing oil mist formation › economic in use › no discoloration of concrete surfaces (by proper application) › easy demoulding › prevents surface damages › special corrosion protection additives reduce the risk of rust formation	› for absorbent and non-absorbent moulds › rough-sawn and planed wood moulds › film- and plastic-coated boards, steel- and plastic moulds
tectol Supercast ES-L is a specially formulated, ready-to-use water-based release agent designed to achieve optimal exposed concrete surfaces in the production of both large and small precast concrete components. Compatible with all common non-absorbent formwork materials	› universal applicability › economical consumption › excellent release properties › fast film formation › Can be used at mould temperatures up to 60 degrees Celsius. › This product provides high quality exposed concrete surfaces.	tectol Supercast ES-L is particularly suitable for precast products with high quality requirements, including those produced by the wet-cast method.

CLEANING AND MAINTENANCE PRODUCTS

CONCRETE REMOVER | CEMENT PASTE REMOVER | MAINTENANCE OILS | MIXER PROTECTION

For the protection of assets in the concrete industry

Regular use of cleaning agents and care products has a number of advantages:

- › Reduced cleaning times
- › Reduced use of cleaning water
- › Use prevents system failures
- › Extension of the lifespan of your systems
- › Protects vehicles, equipment, and work materials

For this purpose, we have the tectol series mixer protection and machine care products, CRETEX concrete remover and intensive cleaner as well as the CITOLITH cleaner for natural and concrete stone coverings / Oil stain remover in development.

Our cleaning and care products protect your assets and shorten labor-intensive and time-consuming cleaning intervals for machines and vehicles

MAINTENANCE PRODUCTS
BASED ON RENEWABLE RAW MATERIALS

CHARACTERISTICS

tectol Mischerschutz B is a specialised, ready-to-use protective and maintenance oil for machinery, mixers and moulds in the concrete block industry. Using tectol significantly reduces cleaning times and extends the service life of the treated equipment. The proportion of renewable raw materials is > 95 M.-%.	› > 95 M.-% renewable raw materials › ready to use › significantly reduced cleaning effort with reduced labor costs › active corrosion protection › longer service life of treated parts
tectol Mischerschutz B HD is a specialised, ready-to-use protective and maintenance oil for mixers, moulds and machinery in the concrete block industry. The product is suitable for use on both dry and wet surfaces. Using tectol significantly reduces cleaning times and extends the service life of the treated equipment.	› > 95 M.-%* renewable raw materials › excellent adhesion on dry and wet metal surfaces › prevents concrete stains › facilitates fast and easy cleaning › removes existing concrete stains when regularly used › effectiv rust prevention
tectol Mischerschutz B GT is a specialised, ready-to-use protective and maintenance oil for mixers, moulds and machinery in the concrete block industry. The product is suitable for use on both dry and wet surfaces. Using tectol significantly reduces cleaning times and extends the service life of the treated equipment.	› > 95 M.-%* renewable raw materials › significantly reduced cleaning effort with reduced labor costs › active corrosion protection › longer service life of treated parts › low operating costs

MAINTENANCE PRODUCTS

CHARACTERISTICS

tectol Mischerschutz und Maschinenpflege is a special, ready-to-use protective maintenance oil for mixers, molds and machines in the concrete industry. When applied regularly the cleaning effort and the associated labour costs are significantly reduced.	› significantly reduced cleaning effort with reduced labor costs › active corrosion protection › longer service life of treated parts › low operating costs
tectol Mischerschutz HD is a high-quality special, ready-to-use protective and maintenance oil for mixers, moulds and machines in the concrete block industry for use on dry and wet surfaces. When applied regularly the cleaning effort and the associated labour costs are significantly reduced.	› excellent adhesion on dry and wet metal surfaces › prevents concrete stains › facilitates fast and easy cleaning › removes existing concrete stains when regularly used › effectiv rust prevention

CLEANING PRODUCTS

CHARACTERISTICS

CITHOLITH Ölfleckenentferner removes oil stains from concrete parts, paving stones, exposed concrete, screed and Natural stones in driveways, garage and workshop floors, parking lots and sidewalks.	CITOLITH Ölfleckenentferner consists of a special combination of oil and bitumen-dissolving substances, as well as selected oil-binding components, so that even the heaviest greasy and oily contaminants are removed.
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CLEANING PRODUCTS

CHARACTERISTICS

CRETEX 100 Concrete stain and efflorescenceremover - concentrate for acid-resistant natural stone and for concrete products.	Fast and reliable removal of: › concrete-,cement-,lime and efflorence stains
CRETEX 100 T dissolves concrete residues as well as cement and lime films. These can simply be brushed or sprayed off. At the same time, CRETEX 100 T intensively cleans concrete and natural stone coverings from general soiling. CRETEX 100 T is specially formulated to penetrate deep into incrustations and remove even the most stubborn deposits.	Fast and reliable removal of: › concrete-,cement-,lime and efflorence stains › for resistant paving and flooring of natural and concrete stone
CRETEX 320 SF is a non-corrosive biodegradable cleaner exempt from labeling, which can be used among other things for the gentle removal of efflorescence and concrete residue.	› save cleaning of concrete products as well as molds and tools
CRETEX B-Aktiv CS is a concrete remover and a cleaner for cement and lime residues on resistant natural stone and concrete surfaces. The product is manufactured from natural raw materials. The proportion of renewable raw materials is > 95 mass %*.	Fast and reliable removal of: › concrete-,cement-,lime and efflorence stains from resistant natural stone or concrete surfaces

*The stated proportion of renewable raw materials is based on a product-specific calculation in mass %. The underlying calculation is available upon request.

GRANULATE SCRATCH AND LAYER PROTECTION FOR CONCRETE BLOCK PRODUCTS

PAVELITH® INTERLAY

Granulate for layer protection

PAVELITH® InterLay is used as scratch and layer protection for horizontally stored concrete block products. The granulate is applied between the individual layers of blocks or slabs before packaging.

Your advantages when using PAVELITH® InterLay:

- › Efflorescence reduction through air circulation
- › Scratch protection
- › Avoidance of waste by not using fleece and nets as layer protection
- › Concrete block products are protected from damage, abrasion, moisture, and dirt

Designed for reliable layer protection

PAVELITH® InterLay helps protect concrete block products from scratches and abrasion during storage and transport.



PAVELITH® InterLay NP-2	CHARACTERISTICS:
Form:	solid
Color:	white
Shelf life:	1 year

INFORMATION ON THE USE OF GRANULATE

How is PAVELITH® InterLay NP-2 used?

The granulate is applied between the horizontally stored layers of blocks or slabs immediately before packaging.

What is the consumption rate?

The recommended application rate is approx. 50 g/m². If pallets are stacked on top of one another, the application quantity should be adjusted accordingly.

How should the product be stored?

Store in a cool and dry place in the closed original packaging and protect from moisture. Do not stack big bags on top of one another.

What should be considered when storing the concrete block products?

Dry storage is important. Moisture between the block layers can affect the duration of the protective effect.

ADMIXTURE DISPENSERS FOR CONCRETE ADMIXTURES

DOSITRONIC AND DOSIMATIC

Volumetric and gravimetric dosing systems from Rhein-Chemotechnik GmbH

By using dosing systems for concrete admixtures, you can handle your raw materials safely and economically.

In addition to our products and service, we offer volumetric and gravimetric admixture dosing systems for liquid concrete, tailored specifically to our products. These systems are fully automatic and can be used for a wide variety of tasks.

The dosing systems manufactured in-house range from a simple version with volumetric fill level control to multi-component scales.

You can improve the properties of your fresh or hardened concrete with optimally dosed concrete admixtures. Our concrete admixture dosing systems help you get the most out of your product.

**MADE IN
GERMANY**



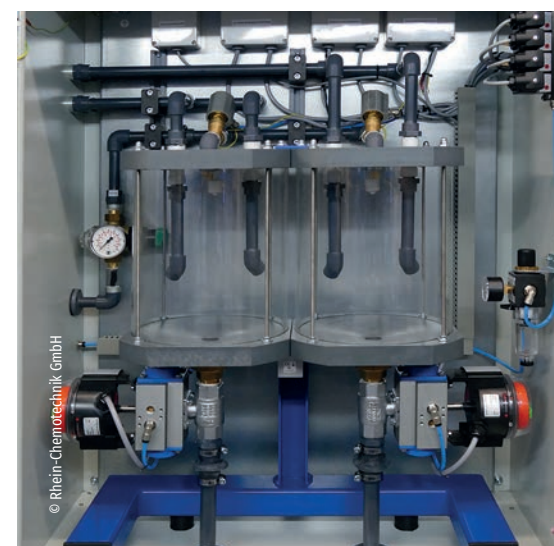
DOSIMATIC EK 2-5 P

The volumetric admixture dosing system DOSIMATIC EK 2-5 P is based on the principle of level measurement. The dosing tank contains 4 adjustable level probes that are adjustable in terms of their sensitivity. This means that you automatically control up to 4 different dosing quantities. In addition, you can set any number of dosing quantities by adjusting the level probes. The DOSIMATIC EK 2-5 P is mounted in a sheet steel housing and is thus protected against dust and moisture.



DOSITRONIC TYP EK 4-10 P

The DOSITRONIC Type EK 4-10 P admixture scale works with a load cell in accordance with the strain gage principle. The weighing container is mounted on a tubular steel frame such that no significant lateral forces are introduced. 4 fill lines are guided from the top in the weighing container. Each fill line has a mechanical pressure relief valve. The net weight is 10 kg. The DOSITRONIC Type EK 4-10 P is mounted in a sheet steel housing and is thus protected against dust and moisture.



DOSITRONIC TYP EK 4-20 P

The DOSITRONIC Type DK 4-20 P admixture scale works with a load cell in accordance with the strain gage principle. 4 fill lines are guided from the top in the double-chamber weighing container, 2 fill lines each per weighing chamber. The net weight is 2 x 10 kg. Each fill line has a mechanical pressure relief valve. The DOSIMATIC DK 4-20 P is mounted in a sheet steel housing and is thus protected against dust and moisture.



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Product range subject to change due to technical progress. Status: 10_22
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