



PRODUCT COMPASS

ROAD RENOVATION
ROAD MAINTENANCE
ROAD CONSTRUCTION

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**SIMPLER
WORK WITH
THE STM APP!**



**GET OUR AI-
ASSISTED
APP NOW!**





WHEN QUALITY IS CRUCIAL

Our roads and paths are increasingly suffering under challenging climate and traffic conditions. This results in fatigue and wear, even leading to destruction in the form of cracks and potholes. This must be counteracted with suitable repair and preventive renovation measures. This helps us enormously reduce costs while keeping the infrastructure usable and safe for as long as possible. It also incorporates the important considerations of sustainability and environmental protection.

STM® IS IDEAL FOR THE FOLLOWING TASKS:

- **Road maintenance** with various surface treatment options and preparatory work such as asphalt reinforcement, minimix processes and patching.
- **Road repair** using grouting compounds, slurries, and other products and measures for the renovation of potholes, cracks and thinning.
- **Road construction** with professional products such as bitumen mixtures and emulsions, which we use for layer composites and edge sealing.



- **Building protection** with materials for roof coatings, coatings for building insulation, sealing and protective coatings such as Silolack.

STM® has been working on technologies for perfect road maintenance for over 115 years. Countless developments, which are thoroughly tested in our own laboratory, speak for the high quality of the measures we take.

Customers from all over Germany trust our experienced employees and excellent products. STM® is all about fair partnership and maximum performance for our customers.

ENJOY OUR
IMAGE FILM

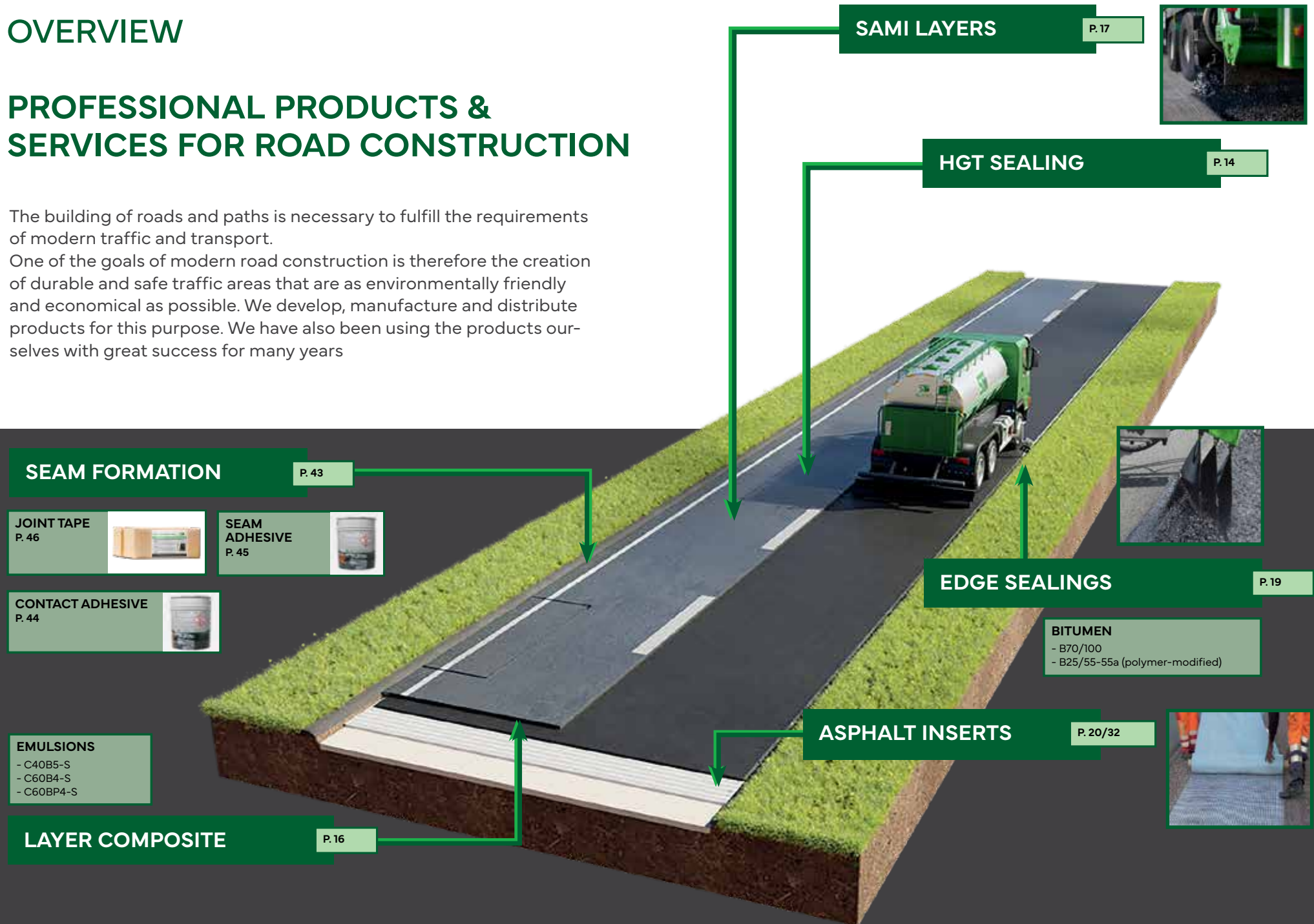


Best regards, Jan Harbrecht
Managing Director STM®

OVERVIEW

PROFESSIONAL PRODUCTS & SERVICES FOR ROAD CONSTRUCTION

The building of roads and paths is necessary to fulfill the requirements of modern traffic and transport. One of the goals of modern road construction is therefore the creation of durable and safe traffic areas that are as environmentally friendly and economical as possible. We develop, manufacture and distribute products for this purpose. We have also been using the products ourselves with great success for many years



OVERVIEW

PROFESSIONAL PRODUCTS & SERVICES FOR ROAD RENOVATION

Road renovation encompasses all measures taken to maintain the utility value of traffic routes and ensure the safety of road users. For this purpose, regular condition checks and, if necessary, maintenance, repair or renewal measures are required using the appropriate products, which we supply and also use in our own company.

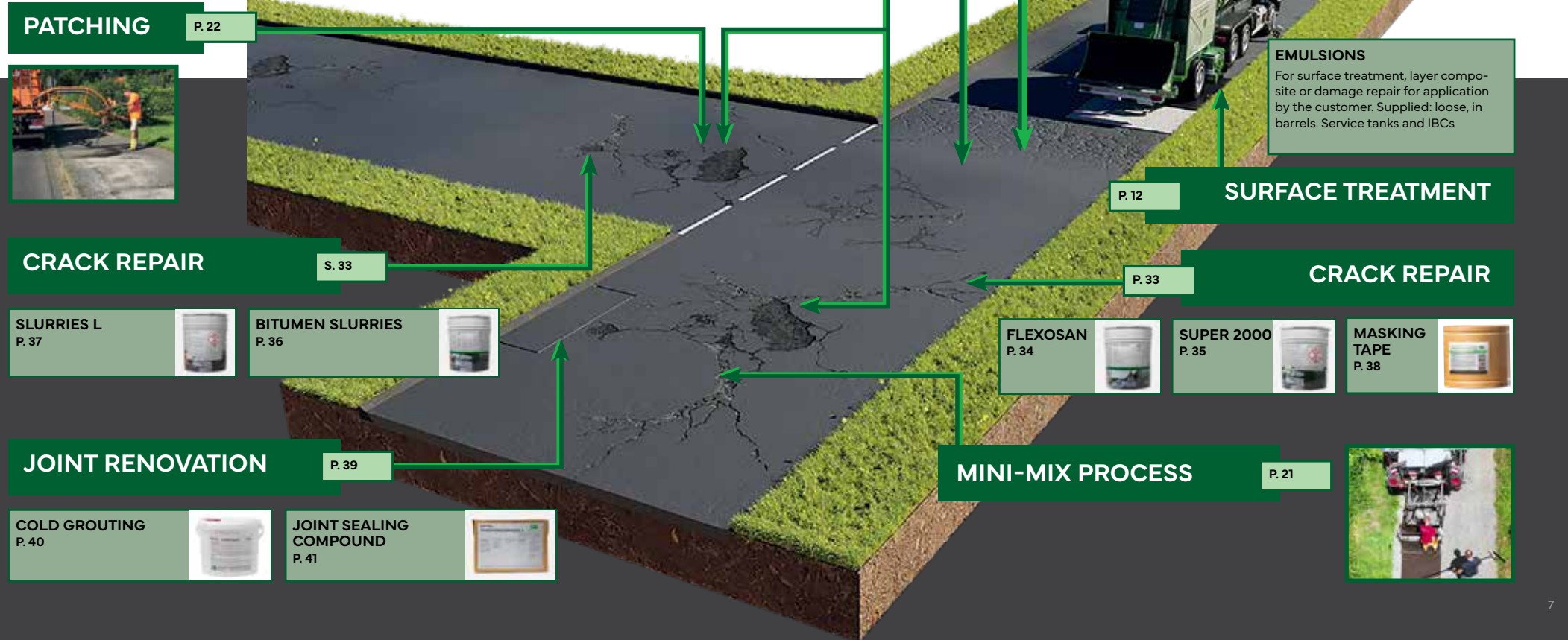




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A

CONSTRUCTION
SERVICES

CONSTRUCTION
SERVICES

SURFACE TREATMENT



One of our prestige services is surface treatment, quality-controlled in accordance with EN 12271:2006, which is the most cost-effective option for road renovation and maintenance.

Surface treatment (ST) is ideal for country roads, district roads and farm tracks. Here, it provides a sealing effect and improves grip.

ST is basically based on a thin layer of bitumen emulsion and a layer of grit, which requires different work steps depending on the area of application. A wide range of treatment options is therefore possible.

In addition to **simple surface treatment**, we also offer **double surface treatment**, **impregnation**, and **sealing with a hydraulically bound base course**.

Simple Surface Treatment



Our team is happy to recommend the individual ST variants for your specific damage pattern. Our special machines minimise the workload, thus ensuring pre-treatment of the road is within scope.

The special design allows us to apply the emulsion and grit in the same operation. The treated area then only needs to be rolled and the road is ready for traffic again.

Surface treatment extends the life of existing asphalt pavements by up to 10 years, and sometimes more. ST also gives gravel roads a new lease of life with little effort.

Surface Treatment – Fast, Efficient and Affordable

Double Surface Treatment





HGT SEALING

The superstructure of a road is sealed in the form of a hydraulically bound base course for a variety of reasons. One of the goals is to seal the surface tightly so that the HGT sets optimally and water cannot penetrate the structure later on.

PROPERTIES

- High wettability on rock
- Good storage stability
- Complies with the requirements of TL BE-StB 15
- The required emulsion C60B4-N is environmentally friendly, both when freshly applied and when reused later



IMPREGNATION

Surface impregnation is a long-proven method of stabilizing roads which can be implemented without great financial expense.

To do this, the existing unbound base course is first reprofiled and supplemented if necessary. This is then “soaked” with high-grade chippings and bitumen emulsion and subsequently compacted. The result is a stabilized surface for light to medium traffic.

This construction method is particularly suitable for forest, agricultural and farm roads as well as for access roads, parking lots and yard pavements.



LAYER COMPOSITE



The layer composite is the connection between the individual layers of the traffic surface reinforcement, for example in road layers made of asphalt. The bonding of the individual layers is intended to prevent movements in the road structure caused by climate and traffic, and thus also damage to the road structure.

EMULSIONS

ESTOL® C40B5-S
ESTOL® C60BP4-S (fast-setting)
ESTOL® C60B4-S



Layer Composite



SAMI LAYERS



In the case of heavily cracked road substructures, a “stress-reducing SAMI intermediate layer” is required before the asphalt is applied. Otherwise, stresses and cracks can penetrate the asphalt surface layer. The task of the SAMI layer (Stress Absorbing Membrane Interlayer) is to prevent this.

The use of noise-reducing, open-pored asphalt results in faster wear. Here, a built-in SAMI layer forms a type of drainage in which the water can flow away. On a concrete layer, an asphalt surface layer causes the two materials to move differently in heat and cold. Here, a SAMI can form a compensating layer between the two.

The installation of a SAMI layer is a cost-effective alternative to avoiding complete renovation or new construction of roads.



SAMI Layers

DSK RENOVATION LAYERS WITH BIKAFLEX-SAMI



This combines two well-known methods – thin asphalt surface layer in cold construction (DSK) and a surface treatment (ST). While DSK is able to level the surface and seal the substrate, it has the disadvantage of lacking elasticity. This is compensated for by ST, which in turn lacks the properties of DSK. While a thin layer of asphalt is applied cold in DSK, in ST the surface is sprayed with a binding agent and then sprinkled with aggregate.

Combining these two methods is almost equivalent to a new surface layer that levels out unevenness, creates a new roughness, can absorb cracks coming from below, i.e. absorbs movements in the material, and is therefore much more stress-resistant overall.



DSK with BiKaFlex-Sami



EDGE SEALING



If the side flanks, edges and seams of the road layers are not properly sealed, water can penetrate. This impairs the durability and service life of the road.

Our ramp sprayers apply bitumen evenly, in precisely measured doses, with nozzles to the shoulders/edges of the road pavement layers and seal the flanks.

With our modern equipment, our hot bitumen material and mobile technology, we ensure optimum seam and edge sealing.

DAILY PERFORMANCE

up to 6–8 km per day



Edge Sealing

ASPHALT REINFORCEMENT



Asphalt reinforcement is a technique used to increase the service life and stability of asphalt roads. Special materials, such as geogrids or geotextiles, are installed between the asphalt layers. These materials help to absorb stresses and prevent crack formation by evenly distributing the tensile forces. Asphalt reinforcement is used in both new construction and renovation of roads, and it helps to improve the quality and durability of traffic routes.

Asphalt inserts are generally used as an environmentally friendly and sustainable alternative to conventional renewal and maintenance methods in order to:

- Reinforce or delay reflective cracks
- Reduce stresses in asphalt layers
- Extend renovation intervals
- Extend the service life of the renovated surfaces.



MINI-MIX PROCESS



In particular, small-area damage to road surfaces is often underestimated and not taken into account. The complete renovations that then become necessary later are very costly and extensive. For these reasons, we have developed Mini-Mix, an alternative technology for fast, cost-effective repairs.

Mini-Mix application: repair of ruts without raising the patched areas, potholes, spalling, for asphalt pavements and pre-profiling for surface treatment.

Further advantages are: trafficable after 30 minutes, minimal traffic disruption, cold processing, thin layers possible and a seamless transition to the intact surface.

DAILY PERFORMANCE

Approx. 6–8 km per day



PATCHING PROCESS



Website link

As a general rule, potholes and cracks should be repaired as quickly as possible to minimize costly consequential damage to the road surface. The simultaneous application of a grit and emulsion mixture using the patching process allows fast, durable and economical repair of isolated repair areas.

This allows damage to be repaired quickly, easily, flexibly and sustainably, maintaining traffic safety and renovating the pavement. And all this comes with considerable cost savings.

Patching is also recommended for pre-profiling roads prior to surface treatment.

DAILY PERFORMANCE

up to 30 tons per day



Patching Process



MOBILE MASTIC ASPHALT BOILER



video link

For flexible road repair and fast pothole repair, we offer a mobile boiler that processes ESTOL® Mastic Asphalt.

Data for mobile mastic asphalt boiler:

- Permissible total weight: 2 tons
- Maximum filling: 200 kg
- Soundproofed Hatz diesel engine
- Propane gas heating for two 11 kg gas cylinders
- Height-adjustable overrun brake
- Ball head coupling (car)

The boiler is available for customers to rent (minimum rental period 1 week) or alternatively as a complete service from STM® "Boiler incl. application of ESTOL® Mastic Asphalt".



Mobile Rental Boiler



B1

INSTALLATION
PRODUCTS
POTHOLE REPAIR

INSTALLATION
PRODUCTS
POTHOLE REPAIR



MAKABIT®+



APPLICATION

Makabit®+ is a cold-processable, ready-to-use, single-component repair material. Makabit®+ is poured directly from the container into the pothole and spread evenly, slightly raised, then temporarily tamped down and compacted with a vibrating plate or tamper. After the repaired area has been sprinkled with sand, it is immediately trafficable. The final compaction is carried out by road traffic. To support/accelerate curing in dry weather conditions, the material can be sprayed with water before compaction.

Makabit®+ contains 70% renewable raw materials and is solvent-free/ VOC-free according to HRepA.

AVAILABILITY in grain sizes 0/3; 0/5; 0/8; 0/11
25 kg metal containers / 32 containers per pallet

Not sensitive to frost – can also be processed
at temperatures below 0 °C. ❄️



MAKABIT® 82 SUPER



APPLICATION

Makabit® 82 Super is a special bitumen-based asphalt mixture with fast-curing properties, unmatched adhesive strength, weather resistance, and year-round usability.

Deeper damaged areas on traffic surfaces can be leveled out with multiple layers of Makabit® 82 Super (and/or filled with loose chip-pings).

Further applications include:

- Creation of new surface layers, for example after the raising and adjustment of manholes and gully inlets.
- Creation of a new surface layer after all excavations in traffic areas.
- Ramp-ups and repairs on industrial floors (including concrete) as well as on yard and garage areas.

AVAILABILITY in grain sizes 0/3; 0/5; 0/8; 0/11
25 kg metal containers / 32 containers per pallet

Not sensitive to frost – can also be processed
at temperatures below 0 °C. ❄️





ESTOL®-BIOMAK



APPLICATION

Thanks to its optimized formula, ESTOL®-Biomak is suitable for all road surfaces, such as mastic asphalt and concrete. It can also be used to repair and level uneven surfaces and repair damage to thin-layer coatings. The product is suitable for creating a new surface layer after raising and adjusting manholes and gutters. Deeper damaged areas can be leveled with several layers (and/or filled with loose grit). To support/accelerate curing in dry weather conditions, the material can be sprayed with water before compaction. ESTOL®-Biomak is a reactively hardening asphalt mixture with grit sizes 0/2, 0/4, 0/8 and 0/11. STM® offers similar products for individual inquiries.

AVAILABILITY

25 kg containers / 32 containers per pallet



ESTOL® MASTIC ASPHALT



APPLICATION

The product is used for the quick repair of damage in all types of road surfaces up to approx. 50 mm in depth. Deeper damage must be filled in multiple layers with ESTOL® mastic asphalt and compacted. It also enables the permanent repair of damage on surfaces subject to heavy mechanical stress, such as motorways and federal highways, as well as the filling of drill holes and the creation of a new load-bearing surface layer after the raising/adjustment of manholes and channel inlets, etc.

For smaller damaged areas, we have a mobile mastic asphalt boiler available for delivery by car, which can also be rented.

AVAILABILITY

12 kg containers / 33 containers per pallet
Bagged goods 20 kg / 40 bags per pallet





ESTOL® REPAIR MORTAR L



APPLICATION

For repairing damage to all road surfaces to a depth of approx. 15 mm. Deeper damaged areas must be levelled in several layers with ESTOL® Repair Mortar L (and/or with Makabit® 82 Super).

The repair mortar is also used for the creation of a new surface layer, for example after raising and adjusting manholes, as well as after all excavations in traffic areas.

AVAILABILITY

25 kg containers / 32 containers per pallet



ESTOL® REPAIR MORTAR E



APPLICATION

ESTOL® Repair Mortar E is used to repair slight uneven surfaces and spalling in ceiling coverings.

The repair mortar is also suitable for filling ruts, as the material can be stretched to zero.

The product consists of three components, which are mixed together in a bucket and ready for use. It can only be used at ground temperatures above + 8 °C

AVAILABILITY

25 kg containers / 18 containers per pallet

Not sensitive to frost – can also be processed
at temperatures below 0 °C. ❄️



Pothole Repair

B

B



Pothole Repair

ASPHALT INSERTS



As a specialist installer and distribution partner for asphalt inserts from many well-known manufacturers, we can provide you with a complete range of reinforcement grids and composite materials for the renovation of asphalt and concrete traffic areas. We have a wide range when it comes to asphalt reinforcement, from complete construction services to smaller meshes for installation on small areas.

We offer the following product groups of asphalt inserts:

- ADFORS GlasGrid® RAPID
- American Road Patch
- Rapid Grid / Patch
- GlasGrid CGL/ GG / CG
- Glasphalt G
- Carbophalt G
- Glasphalt GV
- Glasstex P
- Glasstex Grid
- Glasstex Patch

**ON REQUEST, WE CAN
CARRY OUT PROFESSIONAL
INSTALLATION FOR YOU.**





ESTOL-FLEXOSAN®



APPLICATION

ESTOL-FLEXOSAN® is a solvent-free, plastic-modified bitumen emulsion for the renovation of fine hairline cracks and individual cracks up to approx. 5mm in width in asphalt pavements. For larger cracks, it may be necessary to work in several stages.

The emulsion can be processed cold (at least + 8° C), offers optimum edge adhesion, and runs to the base of the crack. Treated cracks are thus sealed watertight.

Road traffic can be resumed approx. 10 minutes after completion of the work.

AVAILABILITY

25 kg containers / 24 containers per pallet



ESTOL®-SUPER 2000



APPLICATION

ESTOL®-Super 2000 is used for crack repair in road construction. Please only use the product outdoors. The surface to be repaired must be free of water, dirt and loose components.

The product is poured onto the crack and immediately covered with high-grade chippings 2–5 mm thick. Afterwards, the road can be re-opened to traffic immediately.

AVAILABILITY

25 kg metal containers / 24 containers per pallet

B2

INSTALLATION
PRODUCTS
CRACK REPAIR



Crack Repair

B

B



Crack Repair

Not sensitive to frost – can also be processed at temperatures below 0 °C. ❄️



ESTOL® BITUMEN SLURRY



APPLICATION

ESTOL® bitumen slurry is used for pore sealing and the production of surface protection layers on asphalt and concrete substrates, for example roadways, footpaths and cycle paths. Bitumen slurry is also suitable for sealing freshly laid asphalt pavements or for protecting worn and aged asphalt pavements.

Bitumen slurry can also be used to improve the appearance of asphalt and concrete surfaces. To increase roughness, approx. 10% sand with a grain size of 0/2 can be mixed in.

Processing temperature at least +8 °C.

AVAILABILITY

30 kg containers / 24 containers per pallet



ESTOL® SLURRY L (PORE-FILLING COMPOUND)



APPLICATION

ESTOL® Slurry L is ideal for sealing pores thanks to its adhesion-enhancing additives. The material is therefore used for pore sealing and the production of surface protection layers on asphalt and concrete substrates, mainly on roadways, footpaths, cycle paths, etc.

ESTOL® Slurry L is also suitable for sealing and regenerating lean and worn asphalt road surfaces.

AVAILABILITY

30 kg containers / 24 containers per pallet

B2

INSTALLATION
PRODUCTS
CRACK REPAIR



Not sensitive to frost – can also be processed at temperatures below 0 °C. ❄️



ESTOL® MASKING TAPE



APPLICATION

ESTOL® Masking Tape is used for renovating cracks and open seams up to approx. 3 mm on road surfaces. It is placed on the crack and runs into it after heating/flaming. After sprinkling with grit, the crack is renovated.

The tape is easy to process and has excellent elongation and adhesive properties. It is supplied in a thickness of 3 mm and a width of 40 mm.

AVAILABILITY

40 x 3mm / 56 m per carton / 36 cartons per pallet



B3

INSTALLATION
PRODUCTS
JOINT RENOVATION

INSTALLATION
PRODUCTS
JOINT RENOVATION

B3



ESTOL® COLD GROUTING



APPLICATION

ESTOL® Cold Grouting can be used to seal joints in asphalt surfaces, i.e. for renovating cracks from approx. 5 mm or joints up to approx. 15 mm in width. Cold grouting seals the joints permanently and thus prevents further damage.

Cold grouting is installed flush with the ground. This prevents smooth bitumen strips from forming on the road surface. False joints on concrete roadways and transition structures in civil engineering can also be formed with this material.

Processing temperature at least +5 °C.

AVAILABILITY

10 kg containers / 44 containers per pallet



ESTOL® JOINT SEALING COMPOUND E



APPLICATION

ESTOL® Joint Sealing Compound E is used for filling joints up to 25 mm wide on all traffic areas made of concrete and asphalt.

Joint Sealing Compound E is suitable for sealing horizontal and slightly sloping joints and for repairing asphalt pavements. False joints on concrete roadways and transition structures in civil engineering can also be formed with this material.

AVAILABILITY

10 kg carton / 60 cartons per pallet

20 kg carton / 24 cartons per pallet



Joint Renovation

B

B



Joint Renovation

B3

INSTALLATION
PRODUCTS
JOINT RENOVATION



B4

INSTALLATION
PRODUCTS
SEAM REPAIR

INSTALLATION
PRODUCTS
JOINT RENOVATION

B4



ESTOL® CONTACT ADHESIVE D / N



APPLICATION

ESTOL® Contact Adhesive is used to connect all connection seams in asphalt pavement and landfill construction and to create water-impermeable and stress-bridging connections between old and new base courses. It is an economical alternative to joint tape.

The product does not need to be stirred before use. The contact adhesive is applied to the entire surface of the joint flank in a thickness of 3 mm. After a drying time of approx. 15 minutes, the hot mix can be installed. ESTOL® Contact Adhesive D has excellent wet resistance. Contact Adhesive N (without fibers) is relatively low-viscosity and can easily penetrate pores, edges and interfaces.

AVAILABILITY

25 kg containers / 24 containers per pallet



ESTOL® SEAM ADHESIVE (SOLVENT-FREE)



APPLICATION

The waterproof seam bonding is used for sealing landfills and in road construction. For example, the solvent-free ESTOL® Seam Adhesive permanently and solidly bonds the individual strips of an asphalt pavement. The seam is protected against tensile forces and water pressure. The seam adhesive is used where "hot to cold" installation is required and permanent seam bonding is necessary.

The seam adhesive must be processed cold (at least +8 °C). It has a high polymer content. This excess of binding agent ensures strong, permanent bonding of the seam and thus the excellent elastic properties of ESTOL® Seam Adhesive.

AVAILABILITY

25 kg containers / 24 containers per pallet

Not sensitive to frost – can also be processed
at temperatures below 0 °C. ❄️



Seam repair

B

B



Seam repair



ESTOL® JOINT TAPE (SELF-ADHESIVE)



Website link

APPLICATION

The self-adhesive, meltable ESTOL® Joint Tape seals the connection between asphalt surfaces and between asphalt and concrete, for example in vertical road structures such as gullies, road structures, or concrete folded pipes. It prevents crack formation and surface-water ingress. Use in road construction: for permanent sealing between mastic asphalt or rolled asphalt and concrete pavements on roads and bridges. Use in civil engineering and sewer construction: for sealing concrete folded pipes and for sealing manhole rings and precast concrete parts.

AVAILABILITY (Delivery in 24 cartons per pallet)

30 x 8 mm	56 m per box	40 x 10 mm	36 m per box
30 x 10 mm	48 m per box	45 x 8 mm	42 m per box
35 x 8 mm	42 m per box	45 x 10 mm	36 m per box
35 x 10 mm	36 m per box	50 x 8 mm	42 m per box
40 x 8 mm	42 m per box	50 x 10 mm	36 m per box



Seam Repair

B

C

MISCELLANEOUS

c

MISCELLANEOUS



BAUSION-FLEX



Website link

APPLICATION

Bausion-Flex is primarily suitable for roof coatings, for example on garden sheds and garages. The product is also suitable for repair and maintenance of bituminous sealing surfaces, particularly flat roofs, wall connections and building transitions.

AVAILABILITY

25 kg container / 16 containers per pallet / Please order in advance



ESTOL® SILOLACK



Website link

APPLICATION

ESTOL® Silolack is used as a bitumen, insulating and protective coating for building waterproofing. Silolack is applied to concrete or plaster surfaces by spraying or brushing. Ensure that the last coat is completely dry.

When applying by spraying, use the airless method.

AVAILABILITY

25 l sheet metal container / 24 containers per pallet



Roof Renovation



Protective Coating

Not sensitive to frost – can also be processed at temperatures below 0 °C.





ACCESSORIES

PRE-TREATMENT & CLEANING

- Adhesive Primer
- Ultra Clean

BUILDING PROTECTION

- Roof Renovation:
Bausion-Flex
- Protective Coating:
Estol®-Silolack



AUXILIARY MATERIALS

- Rapid Device
- Mini-on (compressed air sprayer)
- Asphalt Squeegee (wood smoother, asphalt spatula)
- Hand Tamper
- Gas Burner
- Wooden Bucket (cast iron bucket)
- Rubber Squeegee
- Pulling Shoe (with and without dosing container)



THANK YOU
FOR READING

