

Summary

Patent rights

Dual competency in bonded construction paving work



Products

concrete interlocking paving stone for bonded construction

Paving slab joint sealing system

- Cement-bonded joint sealing mortar
- Cleaning procedure for paved surfaces



Technical description

- Concrete interlocking paving stone

The concrete interlocking paving stone is a new development with exclusive suitability and optimisation for paving slab construction in “bonded construction”. Its special characteristics, its moulding and its characteristic features are currently stipulated only in the patent specification. This is why an immediate application for grant of a patent on an international level is being made. The detailed systematic advantages cannot be described at this point and must remain subject to the completion of a disclosure agreement with the interested party.

The manufacturing and application regulations which apply in the European Union and/or further applicable regulations are complied with. The conditions of use and/or operation correspond to the highest construction class for traffic zones. Parameters and dimensions are geared towards the maximums for the established performance criteria.

The interlocked bracing system which absorbs high vertical and, in particular, horizontal stresses (shear forces) depends on the interaction between the concrete stone and the joints. Neither the shape or the laying pattern are of pivotal importance for securing. The production engineer is unconstrained when designing the traffic zone. In principle, mechanical hauling is also possible with this concrete paving stone, insofar as permitted by national construction regulations.

By achieving watertight interlocking paving stones (FD), this concrete paving stone, in connection with the paving slab joint sealing system, makes operational areas which have been widely refused to date available to heavy goods transport such as operational surfaces for the chemical industry (protection against substances which are hazardous to water), lay-bys, container handling plants, taxiways, airport terminals and hydraulic engineering areas.

Watertight bonded construction paving slabs with an interlocking paving stone do not only have environmental advantages. The recorded universal changes to climatic conditions have already led to traffic zone flooding due to localised heavy rainfall (torrential rain). The subsequent rapid flow of water causes buildings to be written-off more and more frequently, for “unbonded” paving slab construction.

The concrete interlocking paving stone can be produced using established, typical production methods, following the relevant modifications / upgrades.

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by 12.06.2019 Lu/ma

□ Paving slab joint sealing system

The system consists of “cement-bonded joint sealing mortar” and “post-treatment products for cleaning the paving slab surfaces”. Their properties mean that both materials are suitable for use with all paving slab materials used in traffic route engineering. The joints are filled with grouting mortar using paving slab flushing. The joint mortar is self-solidifying, resistant to substances and environmental influences which act on the traffic surfaces, and provides the paving slabs with **waterproof** properties.

The paving slab joint sealing mortar’s fresh and hardened mortar properties are matched to the transportation route construction requirements and can be used for all traffic classes. The product is exclusively manufactured as a dry mortar which is delivered to the site of application in sacks or silos, depending on the required amount. The latter variant includes a hoisting device for distributing mortar via a hose line with simultaneous silo mixing station provision.

The aforementioned conditions allow paving construction without arranging running joints with unrestricted dimensions. Durability has been demonstrated on exposed building objects with a service life of over **25 years**. The introduction of the patented concrete interlocking paving stone for “bonded” construction does not only restrict these benefits to natural stone paving but also to paving made from pavers.

The joint sealing work is concluded with the “post-treatment” system components, which are applied to the freshly moulded paving using spray application. The paved surfaces can therefore have all mortar contaminants removed through wet cleaning and the joints can be exposed down to level of the stone chamfer, after the mortar in the joint gap has hardened. The laying pattern plasticity (superiority) is preserved in its aesthetics.



Notes:

Both of the joint sealing components can be manufactured to order by selected specialised companies using the predefined formula and under contractually protected conditions.

The paving arrangement for the paving slab joint sealing system represents “bonded construction” and captures its technological key position, due to the entire paving work service’s durability guarantee to be upheld. In the absence of established rules for this construction method, the conditions of construction which were developed purely for this system apply. The recommendations and instructions for “bonded construction” as published in the meantime in the Federal Republic of Germany in the pages of the Road and Transportation Research Association (FGSV) as well as the International Association for Science and Technology of Building Maintenance and Monuments Preservation (WTA) working paper and/or leaflet should not be drawn on for planning and implementing paving projects.

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Unique selling points

The innovative concept is identified by the following unique selling points:

- Concrete interlocking paving product innovation - filling the "unregulated construction" niche with the goal of general technical approval / European technical approval (ETA).
- Unrestricted traffic zone design due to the concrete interlocking paving stone's independence from facility size, form, design and laying pattern.
- Prominent paving slab joint sealing component material properties regarding application, processing/processability and durability.
- Shielding the competition via property rights as well as product / manufacturing knowledge.
- Prominent product descriptions which are protected by trademark law.
- Securing registered DE / EU / COM domain names for the company name, etc.

Economic data

The paving work elements are to be assigned to two independent, legally and operationally separately operating firms which work in close collaboration and whose owners / shareholders may exhibit an extensive agreement. This construct is recommended due to issues pursuant to insurance law (product liability).

The paving joint sealing system is not only limited to the concrete paving stone primarily discussed here but also extends to bonded construction designs from natural stone, paver, etc. Further alternative areas of application are subject to negotiation.

If you would like further information on this, please contact us.

Sales / proceeds expectations

The sales and revenue expectations can only be generated here as equivalent to the stipulated purchase price. This consists of the units of consumption for the joint sealing system elements for the concrete interlocking paving stone reference paving surface. Firstly, reliable values on proceeds for both components exist via the sales price, the material costs, manufacturing to order and distribution costs. Proceeds were only observed for the interlocking paving stone with 3.00 EUR/m².

With the proceeds from a paving design (manufactured in bonded construction using the concrete interlocking paving stone developed in a typical format), the stipulated purchase price for a traffic zone of around 250,000 m² is already balanced using conservative calculations.



Furthermore, the proceeds findings can be increased considerably through the sole use of the paving joint sealing system for traffic zones made from natural stone, paver, etc. A further profit contribution of around 17.00 EUR/m² can be expected from this.

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Purchase price

The purchase price to be agreed upon in the course of negotiations can be paid in two different ways:

- One-off payment upon conclusion of purchase contract
- Alternatively: 60 % of the purchase price upon conclusion of purchase contract, 40 % in 4 instalments of 10 % and a share in the profits of a further 10 % over four business years starting after the 2nd business year. This requires a suitable hedging.

Acquisition opportunities

The proprietary rights in a GmbH and the technical expertise can be acquired by purchasing a share in the GmbH with ordinary capital of 25,000.00 Euro.

100 % of the ordinary capital is held by one person.

Alternatively, the previously stated rights can be transferred to the buyer without acquiring a share in the GmbH.

Transitioning operation

The management team of the GmbH and/or the owner of the proprietary rights are available in an advisory role for a period of time which is still to be determined for a transitioning operation for the transfer of expertise.

Further information

We are exclusively charged with transferring shares in the company to a purchaser and implementing further procedures, including preparing the purchase agreement and delivery.

Remuneration

Our remuneration is born by the seller alone.

Detailed documentation

We will gladly make all further information available following strong interest and signing of the confidentiality agreement.

Proviso of information

All information has been carefully compiled from the documentation which was made available to us by the management team from the present company. We do not assume responsibility for completeness or correctness.



Prior sale

Until a concrete purchase offer has been filed, a prior sale of the company and/or the proprietary rights is reserved.

Contact partner

Mr Helmar Lux