



REPAIR OF ASPHALT/
CONCRETE
SEALING OF SEAMS

A photograph of a construction site. In the foreground, a worker in a green hard hat and orange safety vest is operating a piece of machinery on a concrete surface. In the background, another worker in a blue hard hat and orange safety vest is standing near a white van. An orange van with red and white stripes is parked on the right. The scene is set outdoors with a clear sky and some buildings in the distance.

INSTALLATION OF
HYDRO-INSULATION
COURTING AND
DRAINAGE SYSTEMS

ABOUT US

CONSTRUCTION TRADE UAB PERFORMS THE REPAIR WORKS OF ASPHALT SURFACE AND CONCRETE PAVEMENTS. WE SPECIALIZE IN SEALING ASPHALT SEAMS AND JUNCTIONS, INSTALLATION OF RAIN AND DRAINAGE SYSTEMS, INSTALLATION OF HYDRO-INSULATION, CLEANING VARIOUS SITES, CONCRETING WORKS, RENEWAL OF OUTDATED COATING AND THE REPAIR OF POTHOLES. WE ONLY USE THE EQUIPMENT AND MACHINERY DESIGNED FOR THAT PURPOSE. WE ARE THE PARTNERS OF THE LARGEST ROAD BUILDERS OF LITHUANIA AND WE CONTINUOUSLY COOPERATE WITH THEM ON A VARIETY OF ACTIVITIES. YOU CAN FIND MORE INFORMATION ON OUR WEBSITE OR BY CONTACTING US.



AT THE AIRPORTS



AT THE HARBOURS



AT THE RAILWAY
NODES



AT THE INDUSTRIAL
ZONES



REPAIR OF ASPHALT/ CONCRETE

APPLICATION OF ASPHALT COATING

We install asphalt concrete of the following asphalt concrete brands: AC11AN, AC16AN, AC16AS, AC22AS, AC22PS, AC32PSAC5VL, AC8VL, AC11VN, AC11VS, AC16VS, SMA5N, SMA8S, AC16PD, AC11VN, AC11VS, and AC8VN.

Asphalt concrete is a compacted mixture of asphalt concrete (gravel, sand, mineral powder, bitumen, certain additives). Advantages: low degree of wearing, possesses high strength and durability, easy-to-repair coating, and generates only low level of noise when driven on. The main feature of asphalt concrete is its durability, which allows it to endure harmful alterations of weather changes (temperature fluctuations and other). In winter, the gaps can appear in the coating of asphalt concrete, in summer the coating can become plastic.

Its stability is related to the density of the mixture; the hollowness is provided by the volume of space. Properly compacted mixture will have fewer cavities, as compared to the mixture which is not a compacted one. Dense mixtures of asphalt concrete will also be stable and less prone to transfer the moisture to the lower layers of the construction harder.

Only specialized companies can perform all the required asphalt application works, because it usually takes to apply two layers of asphalt and it must be delivered to the site of application still hot and these processes usually require special machinery. Attempts to perform the works without it will result in uneven application of asphalt, the mixture of which is not compacted enough; once the exploitation of the road begins, these spoilages reveal themselves really soon.

RENEWAL OF ASPHALT COATING

We renew the areas of asphalt coating and use the ready-made mixes, which are used to repair rough asphalt surfaces and the open pores in order to prolong the useful life of asphalt coating applied on the roads, parking lots, sidewalks, also when filling the worn out layers containing bitumen.

The layer of asphalt concrete peels off and becomes deformed after constant exposure to moisture, temperature, the impact of the spinning wheels and the environmental factors, namely films of the binding agent are torn off from the mineral grains and the surface that remains exposed becomes more porous.



RENEWAL OF ASPHALT COATING

These occurrences are more common in spring, when the temperature of the coating surface is uneven and the humidity is high. The chlorides dissolved in water are highly undesirable as well. By emitting the thermal heat, the chloride solutions dissolve the ice crystals quicker, which start to form again, when the weather gets colder.

REPAIRS OF ASPHALT COATING

We perform the repairs of holes, damage and cracks in the grid by milling or cutting out the old asphalt coating, and using hot asphalt concrete for the patching. We repair pathways, yard driveways, parking lots and bicycle paths. We repair small holes, potholes, cracks and wide gaps by using the cool asphalt. We can provide the works of customary repair as well. We also use the reactive asphalt of a very high quality, i. e. during the chemical reaction, when the water is added to the mix, the material hardens very fast; it can also be used when repairing concrete surfaces. Reactive asphalt can be applied on the roads of every load category. Before repairing, the edges of the hole are primed with bitumen primer, while the asphalt is properly compacted with a vibratory plate compactor or a similar device.

REPAIR OF CONCRETE LAYER

We repair the damaged segments, the potholes and smaller holes that have appeared in the concrete layer. We use instantly hardening mixes (mortars), which are used in the constructions of civil engineering, underground and surface elements, where extremely high strength is needed in the early stages. Primary areas of application: foundations, when the duration of work is short, quick repairs in the foundation constructions, quick repairs of assembled elements, quick repairs in the low temperatures.

We repair holes, potholes and damaged concrete layer by using the Rapid-hardening epoxide. It forms a strong, seamless, repairable surface, which withstands the high loads and vibrations, and is also resistant to the fluctuations of temperature.

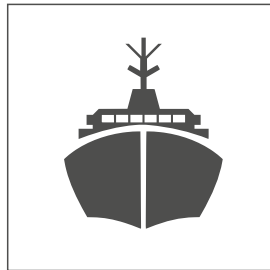


SEALING OF SEAMS

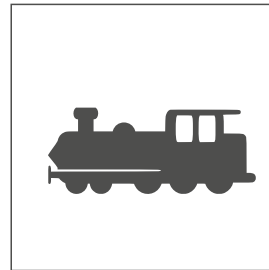
SEAM REPAIRS AND SEALING IN CONCRETE LAYER



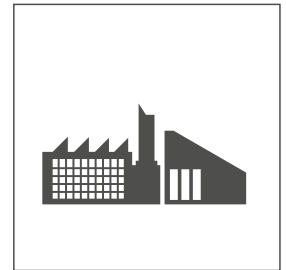
AT THE AIRPORTS



AT THE HARBOURS



AT THE RAILWAY NODES



AT THE INDUSTRIAL ZONES

We seal and repair the seams serving for various purposes:

Insulating, which separate the concrete slab of concrete flooring from the constructions of the building (walls, columns, foundation).

Constructional (technological) which allow for the separate concrete segments of the floor to deform at different times.

Temperature, deformational which are installed in the area of the building's temperature seam.

Contraction (preventive) which are cut in the floor panel after the concrete has been hardening for 1-2 days. They divide concrete floor into separate areas and reduce the cracking due to the contractions resulting from deformations.

REPAIRS AND SEALING OF CRACKS IN THE ASPHALT COATING

We perform the repair of seams and cracks, which open up in the asphalt coating in order to prevent cracking and to stop or reduce the spreading of the defects of the whole construction. The repairs will extend the life-time of asphalt coatings and the intervals between their periodic maintenance.



REPAIRS AND SEALING OF CRACKS IN THE ASPHALT COATING

In order to select a proper repair method, one must consider not only the construction, type, condition or composition of the coating, but also the traffic loads and the significance of the road as well. Only then, the most suitable method and technology for the repairs will be selected.

Causes for the occurrence of cracks and the damage it causes to the asphalt coating

Seams and cracks occur due to various reasons: physical processes, traffic loads, the foundation itself, ageing processes and weather conditions. The defective junctions of seams appear when the “hot-to-cold” application method is used, and the area, which is adjacent to the seam, is poorly compacted, or when the edges of seams of separate layers throughout the entire area are not covered with the sufficient amount of the proper bitumen binding agent (mix). Cracks and exposed seams enable the surface water and solid particles to enter into the structure of the road.

SEALING OF METAL CONSTRUCTIONS

We seal constructions of all types and apply various systems by using hot and cold bitumen sealants, and applying cold bi-component mixes (with self-levelling surface), polyurethane-based sealants (mono-component ones).

Metal ↔ Concrete, Metal ↔ Asphalt, Concrete ↔ Asphalt, Curbt ↔ Polymerconcrete (duct), Asphalt ↔ Polymerconcrete (duct).



COAT AND DRAINAGE SYSTEMS

INSTALLATION OF DRAINAGE AND RAIN WATER SYSTEMS

We install drainage and rainwater systems and evaluate the amount of moisture, type of the soil and its permeability, and the causes of excessive water. We also design drainage systems and implement them and install drainage and rain collection wells.

TILING AND LAYING THE FOUNDATIONS

We lay tiles of various types, including stones, clinker tiles and bricks. We install lawn and street curbs, and various concrete elements.

CONCRETING WORKS

We perform concreting works on demand, and use concrete mixes of various types. We can also strengthen concrete construction by reinforcing it.

INSTALLATION OF SIDEWALKS AND BICYCLE PATHS

We install the sidewalks, footways and bicycle paths by using hot asphalt, concrete tiles and concrete bricks. We install the lawn and street curbs as well.



INSTALLATION OF SIDEWALKS AND BICYCLE PATHS

INSTALLATION OF WELLS, RENEWAL OF THE LAYER AROUND MANHOLES

We adjust the height of various constructions like streets, parking lots and carriageway manholes which do not match the height of the road by using cold or hot asphalt. We replace well cylinders and rings that are cracked, decayed or chipped out. We seal the seams with bitumen paste and bitumen stripes.

INSTALLATION OF HYDRO-INSULATION

APPLICATION OF HYDRO-INSULATION TO BUILDINGS

We hydro-insulate newly-built foundations, various structures, reservoirs and structures for transport communications. We use durable hydro-insulation materials of various types and features.

RENEWAL AND REPAIRS OF HYDRO-INSULATION OF BUILDINGS

We restore the hydro-insulation of buildings, by removing the old system and installing the new one instead. We carry out these works in buildings that have been constructed many years ago, i. e. in the residential and non-residential buildings.



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