

AQUA SPP[®]

Professional quality for future generations.

▪ BLASTING ▪ COATING ▪ METALLIZATION ▪ RESTORATION



ČSN EN ISO 14001:2016



ČSN EN ISO 9001:2016

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POWDERING



COATING



METALLIZATION



HIGH PRESSURE WATER JET CLEANING



BLASTING



RESTORATION

ABOUT US

- On the market since 1995
- Initially the company specialized in diving work and gradually grown to include the current offer of powder coating, wet coating, blasting, metallization and restoration work
- Our customers are from the chemical, energy, machinery, marine and construction industry.





DESCRIPTION OF THE AREA

- 4500 m² active area
- 10 min away from the D8 motorway
- New multifunctional halls
- Own driveway to the area, adjusted for oversized cargo
- Expansion and modernization of existing technological equipment, possibility of processing oversized constructions (60 tons)
- The possibility of accelerating the maturation of the coating system – thermo ventilation units





BLASTING

BLASTING BOX FOR NON FERROUS ABRASIVE
CORUNDUM

- The box dimensions are 15 x 6 x 5 m
- The unique design of the system of halls makes it possible to extend the length of the blasted objects up to the double length of the box
- It is possible to extend the length up to 30 m
- The abrasive gets fully removed and the air is filtered (minimum 25 000 m³/ h)





BLASTING

BLASTING BOX FOR FERROUS ABRASIVE
STEEL GRIT

- The box dimensions are 15 x 6 x 5 m
- The unique design of the system of halls makes it possible to extend the length of the blasted objects up to the double length of the box
- It is possible to extend the length up to 30 m
- The abrasive gets fully removed and the air is filtered (minimum 25 000 m³/h)
- Filtration adapted for ZnAl 85/15 wire metallization applications





BLASTING

BLASTING BOX FOR PRODUCTS MADE OF STAINLESS STEEL
SHOT PEENING

- The box dimensions are 5,6 x 6 x 5 m
- Special treatment of the surface by blasting with microspheres made of glass, ceramics, stainless steel
- Final treatment of the surface of stainless steel constructions – matting, unification
- Control of blasting boxes with the most modern technology - PLC control system of all parts of the technology
- Remote PLC management via the internet





WET COATING

- The dimensions of the coating shop are 60 x 30 m
- 2 portal cranes with the loading capacity of 10 tons
- The air temperature during the process of coating is 15 – 18 °C and during the process of drying it is 20 - 40 °C
- Thermo ventilation units with heat recovery and switching between coating and drying modes
- Possibility of coating oversized constructions (up to 60 tons)

USAGE

- Surface protection of metal constructions, machinery, pipelines, external and internal surfaces of tanks, steel halls, radiators, wheel discs





THE BIG POWDER COATING SHOP

- The dimensions of the big powder coating shop are **8,5 m (l) x 2,7 m (h) x 2,4 m (w)**
- Loading capacity of the conveyor is **3,6 t**
- Modern technology for metal surface treatment
- Currently, in addition to RAL shades, we also offer special shades of metallics, transparent varnishes, structural surfaces, chrome shades and various surface imitations
- Paints used for powder coating are tested and meet the strict environmental requirements
- Some of the paints used for powder coating are even certified to be in contact with dry food and drinking water
- We apply powder paint even in environments with high corrosion load, such as **C5 to CX**









THE SMALL POWDER COATING SHOP

- The dimensions of the small powder coating shop are **2,4 m (l) x 1,7 m (h) x 1,5 m (w)**
- Loading capacity of the conveyor is **50 kg**
- Powder coatings are applied by spraying in an electrostatic field
- After the powder coating is applied, the products are being baked in a furnace
- At 180 – 200 °C the powder melts, hardens and adheres to the surface of the product





THERMAL SPRAYING

METALLIZATION

- The principle of pressure spraying of molten metal
- The applied layer has different physical properties from the original sprayed semi-finished product – greater porosity and hardness
- The applied layer of metal performs an anti-corrosion, renovating or decorative function

Used materials:

Anti-corrosion: stainless steel, aluminum, zinc, Zinacor (ZnAl 85/15 alloy)

Renovation: hard metal abrasion resistant: stainless steel, stainless-chromium carbide, wolfram – boron carbide

Materials for decorative spraying: nickel, copper, zinc

USAGE

- funnels in rock mines, conveyor rollers, turbine blades stressed by abrasion, surfaces of drilling rigs, teeth of rotary heads of excavators, end blades of dozers, the inner layers of pipes and elbows for conducting abrasive substances and various mixtures causing abrasion, stressed parts of pumps etc.





COATING

SURFACE PROTECTION,
FIRE PROTECTION COATING

- We offer the development of technological procedures for coating systems for various corrosive environments according to ČSN EN ISO 12944 using coating materials from foreign and Czech suppliers – HEMPEL, JOTUN, DERISOL, SIGMA, AMERON, PPG, CARBOLINE and more
- Part of the delivery of coating systems is the continuous control of application and climatic conditions, including protocols from these checks
- FIRE PROTECTION COATINGS
- HYDROPHOBIC COATINGS: products for natural stone
- All of our activities are being checked by a certified corrosion technician



COATINGS, RENOVATION OF TANKS



COATINGS, CORROSION PROTECTION OF PIPELINES





HIGH PRESSURE WATER JET CLEANING

WORK WITH HIGH PRESSURE WATER JET UNITS – CLEANING WORK

- For cleaning and water jet blasting we use several devices depending on the type of work and the powers used (up to 2500 bar)
- We use Kärcher and Falch pressure washers for ordinary washing
- Technology for perfect degreasing of dirty surfaces
- Degreasing and cleaning work with detergents

USAGE

- old paint, rubber and sealant removal, renovation of concrete surfaces, bridges, stone and brick walls, cleaning of floors, plasters, facades, roofing, cleaning of runways and roads, cleaning of water tanks and other operating tanks and surfaces, cleaning of exchangers, pipelines, machines, sewers cleaning





BUILDING RESTORATION

- Surface preparation by using dry blasting or high pressure water jet – up to 2500 bar
- Cleaning with dust-free blasting technology – TORBO – reduction of dust by up to 95%
- Renovation of concrete constructions is carried out by using selected renovation materials
- Applied types of renovation materials used are in accordance with the European standard EN 1504



REPAIRS, CAR AND TRAILER REFURBISHMENT



RESTORATION OF CLASSIC CARS



REPAIRS, BOAT RENOVATIONS



REPAIR OF BOAT SURFACES



BUILDING OF BOATS



BUILDING OF BOATS





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