



# KOVMET

**ANTICORROSION PROTECTION  
SANDING - METALLIZATION - COATING**

**KOVMET company was established in 1990 by decision of local bureau in Košice 4.**

**It is a company with a long tradition.**

**By our production premises, technical equipment and qualified skills we provide:**

- cleaning of facades of buildings
- roughening and cleaing of courts and pedestrian zones
- cleaning and anticorrosive protection for steel constructions

**Our technical equipment includes: MP 10, MP 20, MP 27, TATRA 148(platform car),**

**LIAZ (semi-trailer), sprinkler truck, fekal truck, crane – TATRA 16t, 8t, 7t,**

**high pressure spray pump – GRACO, WAGNER.**



**Sandblasting is carried out by compressors ATLAS COPCO:**

- by cast iron bore dust
- by steel bore dust
- by silica sand
- by soda crystals
- by granulated dry ice

**Except cleaning and anticorrosive protection we also provide high pressure spray coating by devices brand GRACO and WAGNER by high quality paint.**

**Paint brands we use are: CHESTERTON (made in USA), HEMPEL (made in Denmark), YOTUN (made in Demark, Sweden).**



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**We increase durability of treated constructions by metallization.**

**Metallization is high pressure spraying of melted zinc, aluminium or different metal (copper, brass, bronze, rustless, etc.) on sandblasted surface which is being carried out by silica sand or by steel bore dust or in special cases by corundum by our metallization equipment. Metallization layer features durability, tough surface, chemical and weather resistance, color, high temperature resistance and electrical conduction. We metallize: all kinds of steel constructions, water treatment equipment, lamp poles, steel bridges, diffusion containers in sugar mills, heavy duty conveyors, steel constructions and equipment of cold storage rooms, creamery, cannery and sugar mill.**



**From aspect of social interersts, anticorrosive protection takes part in lowering the overall costs and difficult protection against corrosion and thus it is the guarantee of optimal protection of articles against impacts of enviroment. Metallization is also being done to shorten up the dead times caused by stopped production. Metallization can be carried out directly at customer or can be carried out at our metallization workstation.**

**In consideration of often changing input materials and energy prices, unit prices will be specified at order signing.**



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## Characterization and purpose

**Metallizing (schoop process) is flame spraying (shoop -plasting) of molten zinc, aluminium or other metals (copper, brass, stainless steel, bronze etc.) on surfaces cleaned with silicate burnishing sand res. with crushed steel, in special cases with corundum. The metallized surface is enduring, hard, resistant to chemical effects, cotorful (porous layer), and resistant to high heat effects. It also has a particular design and good electrical conductivity.**

**Metallizing has recently been used at protection and design of concrete objects (e.g. water cleaners, pools, retaining walls etc.) as well as at cleaning stone building fronts.**

**It has also been applied at cleaning of metal and non-metal monuments.**

**The cleaning is done by dust or non-dust beating, crushed metal, res. by water orifice or chemical way.**

**Unlike other surface reparations, the metallized concrete gets a good look and endurance as well as other physical properties like electrical and heet conductivity. It eliminates spurious electric waves, increases waterproof properties of the porous materials in the concrete and protects the concrete against aggressive effects of environment. It also increases resistance to abrasion and ensures quick rainwater dissipating etc.**



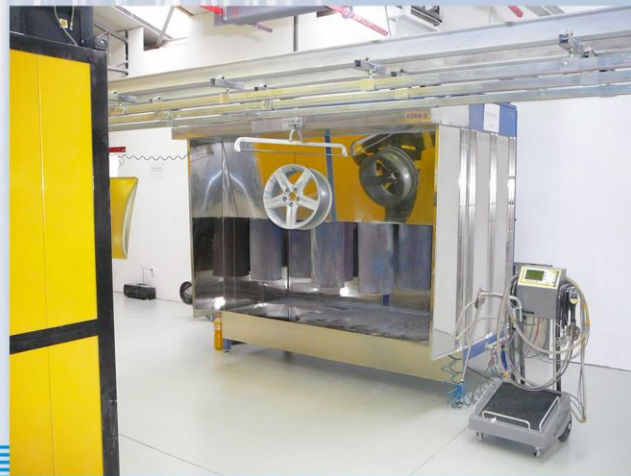
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## What do we metallize?

Concrete and stone objects Metal constructions of all kind  
waste water cleaners steel bridges public lighting poles large feeder devices  
cow house devices containers, granaries from inside also artificial manure bins sugar  
factory diffusion tanks steel constructions and devices in freezing plants, milk plants,  
canning factories, sugar factories and meat plants hydraulic and other technological  
devices which operate under dangerous atmospheric or damp conditions.

## Advantages

From the point of social interest anticorrosive protection by metallizing reduces  
the expenses of protection against corrosion and so it assures the optimum protection  
of products against environmental effects.

## Why do we metallize?

- To protect the metal against corrosion
- To economize the preservation of industrial goods and their parts, to protect them against premature wear and so extend their endurance.
- To reach high effectiveness of savings - there is no need of frequent renovations, and complicated classical painting is also avoided.
- To minimize dead time caused by stopping the production
- To save exchange resources

From economical and technical point of view metallizing is one of the most efficient form of protection against corrosion, especially because it harmonizes the endurance of anticorrosive protection with estimated economical endurance of the protected product (prevention against premature product rejection because of corrosion)

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## Endurance of metallized coatings

Metallized coatings have the following minimum endurance (in years):

In atmospheric environment

Coating	thickness in $\mu\text{m}$	type of atmosphere (strongly aggressive)	SN 03 8203 (very strongly aggressive)
ALUMINIUM	100	20 years	13 years
	200	35 years	25 years
	300	50 years	30 years
ZINC	100	20 years	7 years
	150	30 years	10 years

In hydrous environment

Coating	thickness in $\mu\text{m}$	type of atmosphere (strongly aggressive)	SN 03 8203 (very strongly aggressive)
ALUMINIUM	100	5 years	5 years
	200	10 - 15 years	5 - 10 years
	300	20 - 25 years	15 - 20 years
ZINC	100	5-10 years	-
	150	10 - 15 years	5 years
	200	15 - 20 years	5 - 10 years

From the charts it appears that the endurance of metallized coatings depends on perfect abrasive fitting (cleaning), by silicate sand or crushed metal, but first of all on the thickness of the metal coating. The metallizing technique enables to apply coatings of any thickness, and so it is possible to reach the endurance of metallized coatings required by the customer.

## Delivery terms

Delivery terms are stated by mutual agreement after issuing an order and carrying out an examination.

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**Method of metallizing operations**  
The metallizing operation is carried out straight at the place where the object is, under conditions stated in the following normative regulations:

**SN 03 8551**

(protecting aluminium and zinc coatings applied by flame spraying),

**SN 03 8762**

(combined coatings from flame sprayed aluminium or zinc with organic paint), and other related SN.

Easily portable constructions and devices are metallized in our premises: Košice-Barca.



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## **Quality politics in Anton Zachar KOVMET**

**Company Anton Zachar KOVMET was established in 1990 as company focused mainly on metal surface treatment.**

**Its goal is to provide services, that will permanently satisfy the requirements and needs of its customers. We are anxious that all our provided work and services by quality are match to our customers' intended purpose. We will keep on supporting our goodwill that we have earned by executed jobs and provided seevices. We also try to keep our goodwill in mind of our base customers and in public as well. We are avare that we can achieve continuous good quality only by that policy that concerns all the activities an all the employees of our company.**

**Every individual must take part in implementing of goals of quality.**

**That is why every employee is expected to do their work faultlessly.**

**Everyone must work so that his customer either internal or external is satisfied.**

**Satisfying needs of our customers is a permanent part of our everyday work and presentation of our quality policy.**

- **our cutomer is the main quality rate, by implementing quality system according to stantards STN EN ISO 9001:2001 we provide appropriate certainty, that the results of our work have the intended quality**
- **we create contidions for results of our work to comply with current technical and legislative standards**
- **every worker is responsible for the results of his work**
- **ensuring a quality can not be carried out at the expense of safety and health protection. Enviromental protection and nature protection are obvious for our company.**
- **quality creates a goodwill of our company and is a condition for prospering of our comapny**

**In order to these politics be carried out, is our goal as a top management to fully embark upon quality.**

**Quality politics is published in our company as a stand alone document and all the eployees are acquainted with quality politics of our company.**



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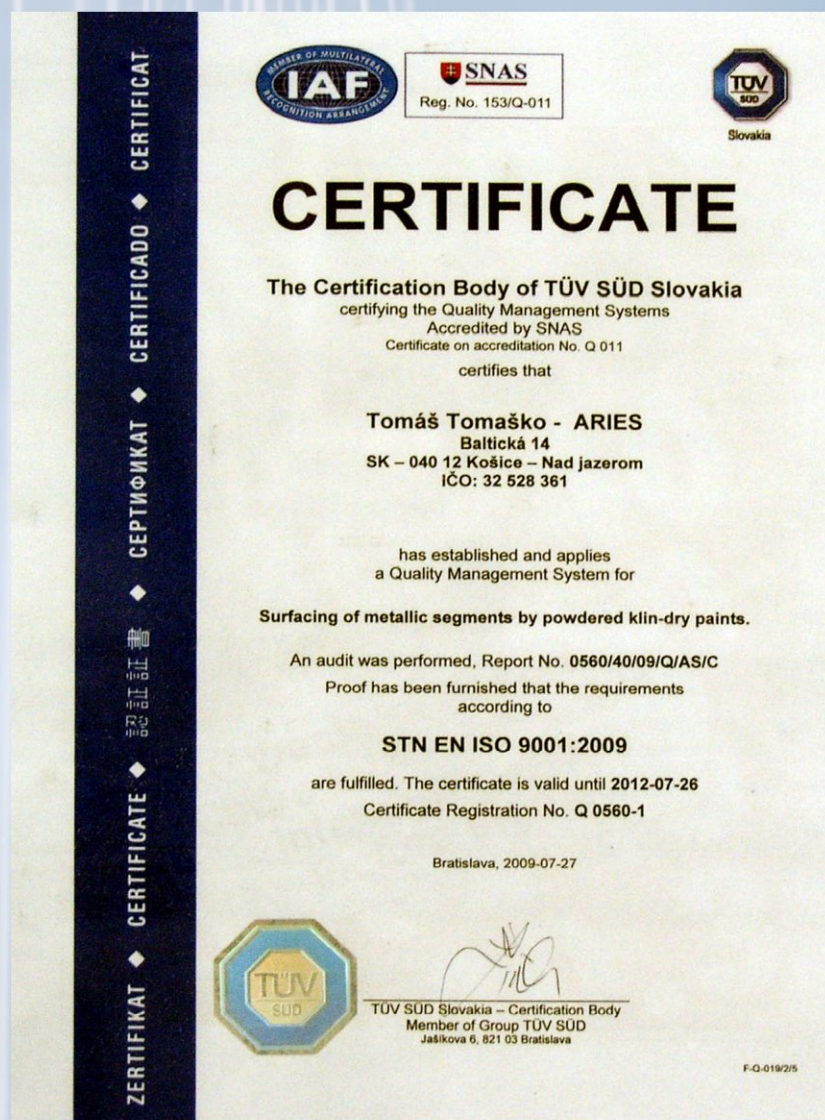
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## Certifikats:



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