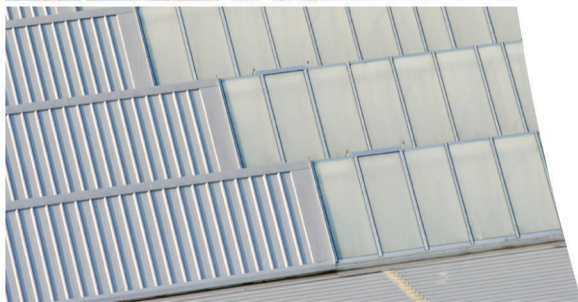




INTELLIGENT COATING COMPOUNDS

Thermoplastic coating
for steel-structure protection

ELASTCOM HS, ELASTCOM AUREL
ELASTCOM AUREL METALIC, ELASTCOM MASTIC



ADVANTAGES OF THE ELASTCOM INTELLIGENT COATING COMPOUNDS

1

Unique material properties

These materials represent the extraordinary functional connection of the material properties of epoxides and polyurethanes. It is due to this that the final product is adhesive, elastic and firm at the same time.

2

Steel construction protection

The ELASTCOM coating compounds create a special protective film on steel constructions, which is highly adhesive, elastic, can adjust to the movement of the construction and stays functional even in extreme conditions.

3

Long-term durability

The coating systems do not age immediately after application. It is an intelligent compound which matures for about 6 years after application. One effect of the gradual maturing is the extended durability of the coating and the steel construction itself.

4

Application in extreme conditions

ELASTCOM coatings can even be applied in adverse climatic and weather conditions when comparable materials cannot be used.

EXAMPLES OF USE



THE ENERGY INDUSTRY



SPECIAL COATINGS



BRIDGE CONSTRUCTIONS



STREET LIGHTING

ELASTCOM COATING APPLICATION EXAMPLE



before

after

Application in extreme conditions

In the case of the transfer system reconstruction for the company ČEPS a.s., it was necessary to provide steel construction coating renewal. The situation had been complicated by unsuitable older coatings and the appearance of large laminar corrosion at junction points.

The steel construction was at first mechanically treated and then the protective coating ELASTCOM three-layer system was applied to a total thickness of 190 µm. The chosen method guarantees high durability, it eliminates construction temperature variability, it ensures resistance to weather conditions and maintains the functional properties of the coating material, such as inner resistance and high adhesion to the base material.

ENVIRONMENTAL POLICY



One of the goals of the IZOL-PLASTIK s.r.o. company is to stress maximum protection of the environment. Therefore all our compounds are highly sensitive to the environment. Due to its insolubility after application there is no pollution in the form of rainwater leach. Part of the company's internal manufacture process is also the regular control of raw materials and the end product. Our technology is completely waste-free and therefore does not burden the environment with more waste material. We implemented and keep to the environmental management system according to the ISO 14 001 standard.

The company has defined its own environmental policy to ensure the highest environmental safety. According to the policy we have committed ourselves to dispose of waste water, waste and dangerous substances in a way which eliminates any impact on the environment. We also strive to save energy and effectively use raw materials from manufacturing.

PRODUCTS FOR THE PROTECTION OF STEEL CONSTRUCTIONS

The ELASTCOM product line offers a comprehensive solution for steel construction coating. Parts of the protective system are the base anti-corrosive coating ELASTCOM HS and the surface coating compound ELASTCOM AUREL. The line also includes ELASTCOM MASTIC sealing and the metal pigment coating compound ELASTCOM AUREL METALIC.

ELASTCOM HS

A base anti-corrosive coating which is ideal for primer coatings. It has excellent anti-corrosive properties, is adhesive, elastic, durable and easily applicable on all types of metal materials.

ELASTCOM AUREL



Top coating compound available in a wide range of colours. The coating adheres perfectly to the base material, is elastic and colourfast. It is excellent at resisting weather conditions and lasts for at least 20 years.

ELASTCOM AUREL METALIC

Top coating compound available in a wide range of colours. The coating adheres perfectly to the base material, is elastic and colourfast. It is excellent at resisting weather conditions and lasts for at least 20 years.

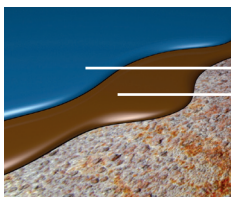
ELASTCOM MASTIC

A sealant developed for protecting details in steel constructions and sheet metal roofs, which efficiently seals all protrusions. The sealant adheres to all kinds of surfaces, has excellent damp-proofing properties and resists freezing and high temperatures.

SYSTEMS FOR PROTECTING STEEL CONSTRUCTIONS

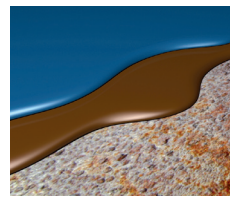
ELASTCOM product systems offer tailored solutions for particular situations. They are designed to effectively combine the practical properties of particular coating compounds. Due to lamination the resulting effect is maximised. Further ELASTCOM systems are chemical and weather resistant.

ELASTCOM TWO-LAYER SYSTEM



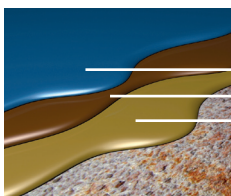
Perfect for galvanized surfaces and other surfaces without corrosion.
 Top layer: **ELASTCOM AUREL**
 Base layer: **ELASTCOM HS**
Suitable for bases: galvanized iron, steel, Atmofix, copper, new or old coating, with or without surface corrosion
Used for: UHV, HV and LV pylons, street lights, traction mains, transformer stations, switchboards, bridges and energy bridges

ELASTCOM TWO-LAYER SYSTEM PLUS



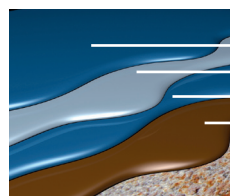
Perfect for surface corrosion treatment
 Top layer: **ELASTCOM AUREL**
 Base layer: **ELASTCOM HS**
 First layer: **corrosion regulator**
Suitable for bases: steel, Atmofix, new or old coating and with surface corrosion
Used for: UHV, HV and LV pylons, street lights, traction mains, transformer stations, switchboards, bridges and energy bridges

ELASTCOM THREE-LAYER SYSTEM



Comprehensive solution for steel constructions, new or flaked coating and corrosion.
 Top layer: **ELASTCOM AUREL**
 Intercoating: **ELASTCOM HS**
 Base layer: **ELASTCOM HS**
Suitable for bases: galvanized iron, steel, Atmofix, copper, new with flaked coating and corrosion
Used for: UHV, HV and LV pylons, street lights, traction mains, transformer stations, switchboards, bridges and energy bridges

ELASTCOM ANTIPOSTER SYSTEM



Patented system to deter fly-posting
 Top layer: **ELASTCOM AUREL**
 Inlay: **inert material**
 Adhesive layer: **ELASTCOM Aurel**
 Base layer: **ELASTCOM HS**
Suitable for bases: galvanized iron, steel, Atmofix, copper, new and corrupted by corrosion, also for plastic bases
Used for: street lights, traction pylons and mains, transformer stations, switchboards, metal and plastic electrodistribution boards

REFERENCE

We have already applied ELASTCOM coating compounds to more than 2 million square metres of steel structures. Among our most important partners are České energetické závody, a.s. (ČEZ), on whose pylons we applied hundreds of thousands of square metres between 2001 and 2011, Česká energetická přenosová soustava, a.s. (ČEPS), where we provided 800 000 square metres of coating during the same time, Slovenská energetická přenosová soustava, a.s. (SEPS) and Středoslovenská energetika, a.s. (SSE), where the total amount also reaches up to several hundred thousand square metres. Among our other partners we can count Slovenské elektrárny a.s., Dopravní podnik Bratislava a.s., Siemens Bratislava, Eltodo EG a.s., Elektrovod, a.s., Třinecké železárny a.s. and Dopravní podnik hlavního města Prahy. We have implemented street lighting coatings, including the Antiposter system application, in cities such as Prague, Bratislava, Sofie, Brno and Košice.



THE ENERGY INDUSTRY

A key part of our activities are large-scale steel construction coatings, such as UHV (ultra-high voltage) electric pylons and 400 kV portals in substations. These coatings are used in the energy industry especially on galvanized iron, steel or Atmofix constructions. ELASTCOM systems are ideal in this field as targeted solutions for new steel constructions even with a previously applied old coating or deep corrosion damage.



SPECIAL COATING

The ELASTCOM coating system can be applied to all kinds of roof constructions, shaped sheet metal, attics or roof air conditioning. The anti-corrosive coating protects the construction itself and a damp-proofing reflective compound is highly effective in eliminating roof overheating due to the UV radiation reflection. ELASTCOM systems are available in authentic gold, silver and copper imitation and are therefore perfect for coatings for the roofs of historical buildings, for example.



BRIDGE CONSTRUCTIONS

The highly functional properties of ELASTCOM systems can be used for the treatment of bridge constructions. It is possible to count on trouble-free application over large-scale bridge constructions which are stressed by temperature variability and, simultaneously, enormous weight. We have provided coatings for companies such as Energetika Třinec and coating renovation for ŘSD Olomoucká of the RENO company and a railway bridge for LORANS Bulgaria.



STREET LIGHTING

In this area ELASTCOM systems ensure the provision of aesthetic and efficient surface treatment of street lighting, signalling devices and traction mains. The ANTIPOSTER technology prevents illegal fly-posting. We are partners with the companies ELTODO Praha, Siemens Bratislava and LORANS Bulgaria in the treatment of street lighting. We have also provided traction-mains coatings for Dopravní podnik hlavního města Prahy and signalling-device coatings for Praha TSK.

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ABOUT THE IZOL-PLASTIK COMPANY

The IZOL-PLASTIK s.r.o. company is involved in research and development into technology for protective coating systems and special damp-proofing compounds based on the raw material DMT. Our products have unique functional properties confirmed by more than 60 years of experience in the field as well as a number of inspections and certificates. On the basis of our original damp-proofing technology, which is now represented by the PLASTONIT product group, we have linked the development of new material types, resulting in the manufacture of new protective coating systems for the protection of all steel structures, represented by the ELASTCOM brand.

Your supplier:

OUR CLIENTS



OUR CERTIFICATION



- **ISO 9001 certificate** of quality management
- **ISO 14001 certificate** of environmental management
- **ISM politics:** quality of environment assurance
- IZOL-PLASTIK product certificates