



MADE SMARTER. MADE FASTER.



ZincTape[®]

ACTIVE ANTI-CORROSION PROTECTION

- ✔ Over 20 years of protection
- ✔ Comprehensive application
- ✔ Environmentally friendly



www.proindus.pl

ZincTape® has been designed to cover the surface of iron, steel, aluminum and light metals in order to protect them from corrosion.

This is achieved by applying it to the metal surface that needs to be protected from corrosion. This method is commonly known as “laminar zinc coating”.

The adhesive layer is covered by a siliconised paper protecting the band from getting damaged or polluted until the tape is applied. The adhesive layer, which is applied only on one side of the tape, consists of a matrix of adhesive and a percentage of zinc powder.

Through the addition of zinc powder an important effect of making the adhesive itself electro conductive is achieved. This process allows the adhesive to create an electrical couple between the surface that needs to be protected and ZincTape so that the zinc can act as galvanic anode.

Over 20 years of active corrosion protection!



ZincTape consists of a high pureness zinc tape (>99.95% of the chemical mass of zinc), with a nominal thickness of 0.08 mm. The tape is supplied with a >0.025 mm thick adhesive, which can resist continuous operating temperature of 80oC and which reacts under electro-conductive pressure.

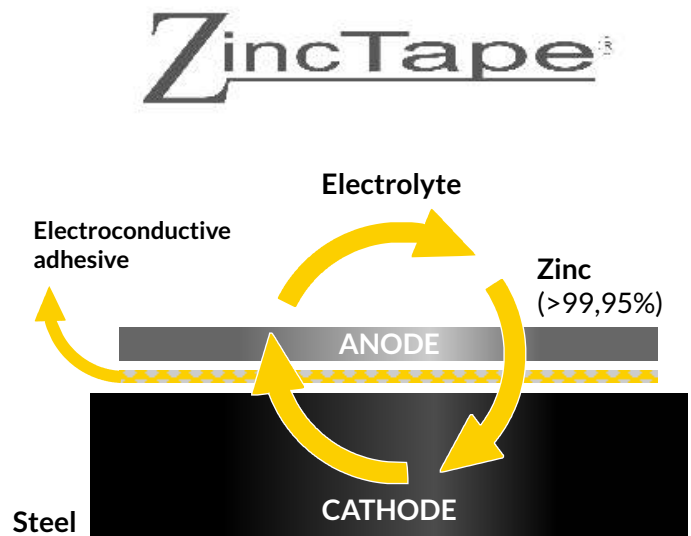
The adhesive layer is covered by a siliconised paper protecting the band from getting damaged or polluted until the tape is applied.



TECHNOLOGY

The enlargement on the right shows the application of ZincTape onto a steel surface.

Thickness of the adhesive layer is uniform across the tape. Zinc granules are uniformly dispersed in the adhesive layer. They are necessary to enable electro-conductivity of the adhesive and ensure a continuous metallic contact between zinc and steel.



As a consequence of the unique manufacturing process and the high purity of the employed zinc, the band has an absolutely homogeneous and isotropic microstructure, which cannot be found in other protection systems.

Therefore we can state that the product has the following features:

- ☑ inhibiting any direct corrosion
- ☑ active anti-corrosion protection due to the electrical contact between the surface to be protected and the zinc layer, which – in the presence of an electrolyte – reacts as a sacrificial anode
- ☑ presence of an adhesive layer, anchored on the surface to be protected, which is an additional defense against corrosion

Coating with ZincTape assures cathodic protection of metal surfaces for the lifetime of the protected structure or – in many cases – for longer.



CATHODIC PROTECTION

The picture on the right shows the difference between two iron bars held in a salt and water solution for one year.

A 50 mm ZincTape was used to coat one of the bars in the central area. The role played by ZincTape as a sacrificial anode is of great importance: although it only covers part of the surface, the tape protects the whole surface against corrosion. Taśmę ZincTape mocuje się do szlachetniejszego metalu. Should there be doubts concerning the electrolytic potentials of the materials, it is advisable to cover both surfaces with ZincTape so that any corrosion can be inhibited.

PROPERTIES

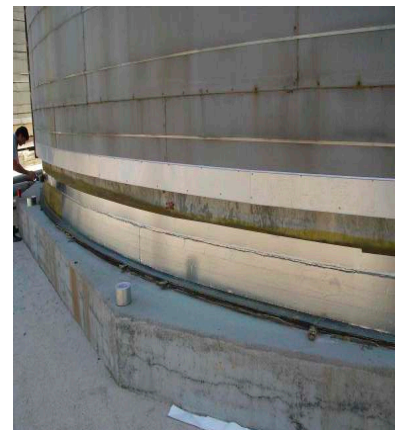
Unique zinc coating of anti-corrosion ZincTape® has the following properties:

- ☑ passive protection
- ☑ active protection
- ☑ homogeneous and isotropic structure,
- ☑ environment friendly
- ☑ no need for surface priming
- ☑ can be applied at any time in the life of the structure
- ☑ facilitates repair and regeneration of metal surfaces
- ☑ easy to apply on individual components,
- ☑ can be painted over
- ☑ multiple coating possible for extra protection
- ☑ longer protection than in the case of hot dip galvanizing

APPLICATIONS

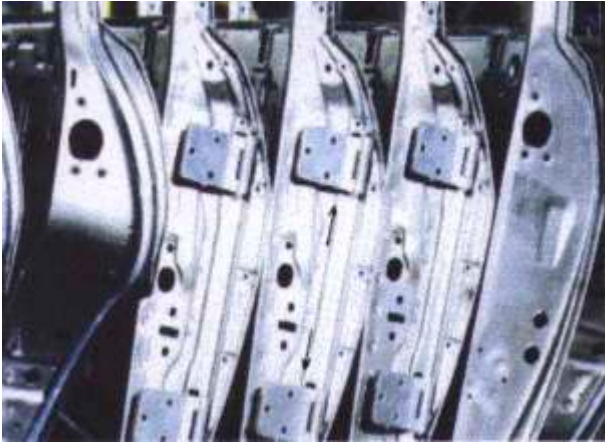
OIL & GAS

Underground and over-ground pipes. Sea platforms, port structures, wharves, piers and off-shore platforms. Above-ground installations and components of refineries



AUTOMOTIVE

Protection of window borders, chassis, roofing and other areas subject to water penetration. It can be used on hinges, car doors and other sensitive areas as die cut ZincTape shapes according to the client's specification.



LAMP POSTS

Lamp posts are protected by ZincTape at the base, which is the critical surface area for corrosion. The coating is usually applied by qualified technicians or the supplier of the metal poles.



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PRODUCTS

The product is available in two forms:

- ☑ In shapes die cut according to customer specification.
- ☑ In rolls (width and length shown in the table below).



Width (mm)	10	15	20	25	30	35	40	50	70	80	90	100	150	200	300
Length (mm)	50														

CERTIFICATES



Mobil



Mercedes-Benz



RENAULT

British Energy

ALSTOM



SCANIA



EXON

Dniu Spółka z ograniczoną odpowiedzialnością

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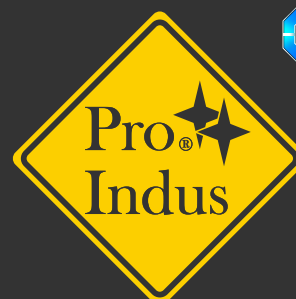
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