

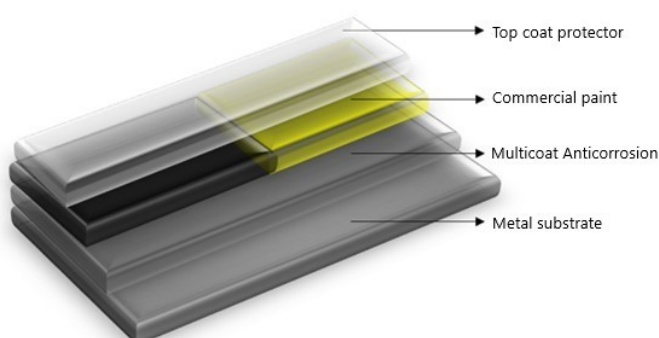
## TECNADIS MULTICOAT ANTICORROSION

Nano ceramic protector with anti-corrosive properties for metals

### Product Description

**Tecnadis MULTICOAT ANTICORROSION (PRIMER and FINISH)** are nano ceramic solutions with high hardness and high corrosion protection for metals, **Category C4 – C5 High** (meeting the criteria of the tests carried out on carbon steel based on UNE EN ISO 12944-6:2018). The following anti-corrosion technologies are available:

- **Tecnadis MULTICOAT ANTICORROSION PRIMER: high-performance anti-corrosion protector (Category C4 – C5 High)** used as an anticorrosion primer in a multi-layer system, see figure:



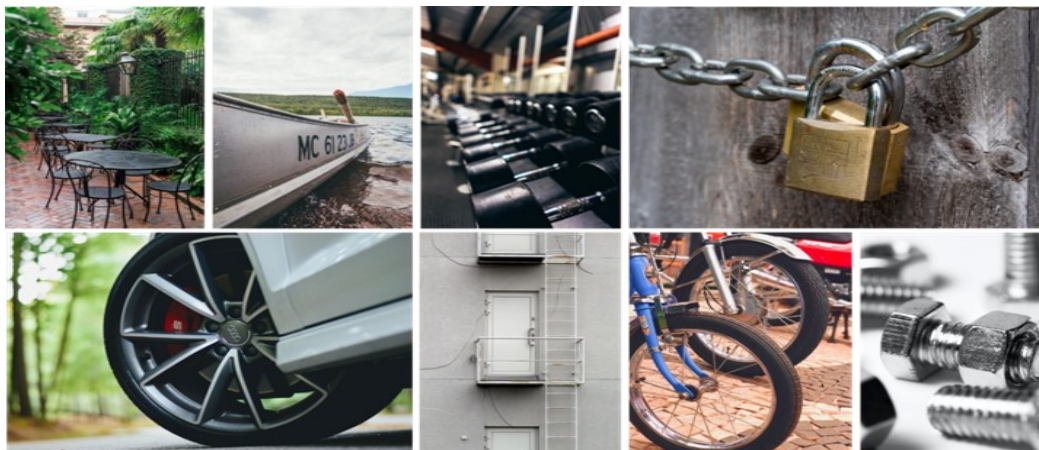
- **Tecnadis MULTICOAT ANTICORROSION FINISH:** it is also a high-performance anti-corrosion protector, but is used directly on the metal as a final coat of metallic grey colour, **providing non-stick properties**. This solution is **highly resistant to corrosion (Category C4 – C5 High)** and **protects** surfaces from deterioration caused by some **external agents** such as **water, ice, humidity, rust, saltpetre, corrosion, UV radiation**, as well as that caused by **dirt (oils, grease, graffiti, etc.) or scratches**.

Both products, which **are not a paint**, create a **metallic grey anti-corrosion coating**. They are based on a dispersion of ceramic and metallic nanoparticles that provide **advanced and long-lasting cathodic protection (Category C4 – C5 High)**, in accordance to the criteria of the tests carried out on carbon steel, based on UNE EN ISO 12944-6:2018).

### Applications and uses

**Tecnadis MULTICOAT ANTICORROSION** can be directly applied on:

- **Metal** surfaces such as: steel, iron, aluminium, copper, bronze, brass, etc.



## TECNADIS MULTICOAT ANTICORROSION

Nano ceramic protector with anti-corrosive properties for metals

**Uses:** It can be used in a wide variety of applications where high protection against corrosion is required, for example:

- **Industrial maintenance:** paint booths, painting tools, metal structures, tanks, tools, etc
- **Urban maintenance and infrastructure:** benches, litter bins, lampposts, children's playgrounds, public toilets, sculptures, MUPIS, etc.
- **Household:** Furniture, hinges, railings, locks, doors, radiators, blinds, shutters, windows, screws, taps, mailboxes, enclosures, fences, etc.
- **Vehicle components:** rims, chassis, bodywork components, etc.
- **Nautical maintenance:** propellers, keels, masts, fishing tackle, etc.

### Features and advantages

- **Metallic grey nano protector, long-lasting and advanced cathodic protection.**
- **High corrosion resistant coating. Category C4-C5 High.**
- The final standard thickness of the coating will depend on the anti-corrosive properties sought and may vary from **approximately 15-25 microns**.
- It creates a **protective layer** with **metallic grey finish** that **works as a cathodic protection** on metals, **reducing** the deterioration caused by some **external agents** such as **water, ice, humidity, rust, saltpetre, corrosion, UV radiation**, as well as **natural deterioration** caused by **dirt or scratches**.
- **High durability.**
- It provides **hardness** to the treated surface.
- It **extends the lifetime** of materials, making maintenance intervals longer.
- The non-stick power of **Tecnadis MULTICOAT ANTICORROSION FINISH** facilitates **maintenance, demoulding and cleaning of dirt (stains, oils, grease, graffiti, limescale, etc.)**.
- **Room temperature curing.** It does not require heat. However, the curing process for both PRIMER and FINISH can be accelerated at temperatures of 120-130°C for 1 hour.
- **Resistant to temperatures** of around 140-150°C.
- **Resistant to solvents and common cleaning products.**
- **Easy application** by aerosol or spray gun.
- **Great adhesion** to surfaces.
- **Re-applicable.** It is possible to repair damaged areas without having to remove the previous coating remains. If necessary, it can be removed by surface polishing.

## TECNADIS MULTICOAT ANTICORROSION

Nano ceramic protector with anti-corrosive properties for metals

### Product information. Composition and physico-chemical properties.

TECNADIS MULTICOAT ANTICORROSION	
Colour	Metallic Grey
Active Components	35-45%
Solvent	Ethanol
Density	0,9-1,1g/ml
pH value	8-9

- **Packaging:** 400 ml (aerosol), 1L, 5L, 25L
- **Bulk storage:** Tecnadis MULTICOAT ANTICORROSION has a shelf life of 12 months from the date of manufacture, stored tightly closed in the original hermetically sealed container at temperatures between 5°C and 30°C.

### Surface preparation

The metal substrate must be clean and dry before applying Tecnadis MULTICOAT ANTICORROSION, free of corrosion, grease, oil, paint, salts, dirt, oxides or any other contaminants.

Iron and steel: Degrease with suitable solvents or cleaners. Remove mill scale, paint, or loose particles by abrasive blasting to Sa 2½ grade in accordance with ISO 8501-1. Other preparation methods, such as using scratch brushes, sanding, etc., or using chemical products such as strippers, can also achieve satisfactory results. Leave the surface free of contaminants and remove any dust.

New galvanized surface: Remove oils and grease with cleaning thinner. If the galvanized surface shows zinc corrosion, remove it mechanically. Finally, remove any remaining dust.

Alloys: Remove oils, greases and dirt residues, leaving the surface free of contaminants.

Maintenance of painted metal surfaces: Degrease the surface. If there are loose or poorly adhered paint residues, rust or corrosion, it is recommended to remove them by surface polishing (brushing or sanding) or abrasive blasting. Remove dust and other contaminants.

#### CONSIDERATIONS:

- During metal preparation, it is also important to remove imperfections from welds, edges, and other areas of the metal surface before applying Tecnadis MULTICOAT ANTICORROSION.
- Tecnadis MULTICOAT ANTICORROSION should be applied within 3 hours after shot blasting.

## TECNADIS MULTICOAT ANTICORROSION

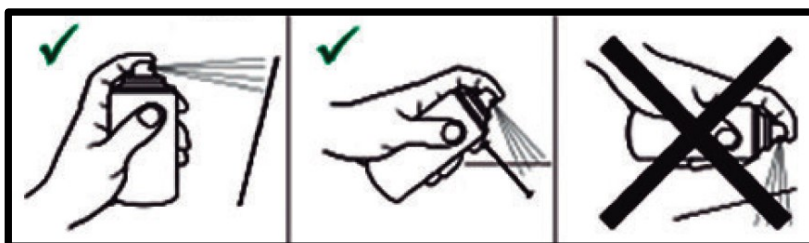
Nano ceramic protector with anti-corrosive properties for metals

### How to use it

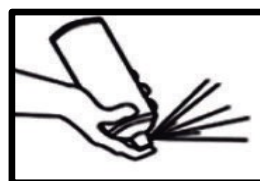
1. **PREPARATION:** It is recommended to shake the container vigorously before its use to ensure homogeneity of the product.

2. **APPLICATION:**

2.1) **AEROSOL:** Spray Tecnadis MULTICOAT ANTICORROSION evenly over the surface at a distance of 25-35 cm, keeping the container in a vertical or slightly inclined position, until the desired finish is achieved (avoiding overspray and sagging as far as possible).



After its use, clean the aerosol nozzle by pressing the button upside down until only gas comes out.



In the unlikely event of clogging, make a fluid such as ethyl alcohol or water pass through the nozzle.

Average yield approx. 1-2 SqM/aerosol. This may vary depending on the nature, porosity and roughness of the surface.

2.2) **BULK:** Spray Tecnadis MULTICOAT ANTICORROSION evenly over the surface until the desired finish is achieved (avoiding overspray and sagging as far as possible). It is recommended to apply the product by means of a compressed air sprayer, electric airless sprayer or automated spraying systems for industrial series.

Average yield approx. 4-8 SqM/Ltr. This may vary depending on the nature, porosity and roughness of the surface, as well as the desired degree of corrosion protection.

3. **DRYING:** The curing process necessary to achieve the adhesion of the product to the substrate can be carried out either at room temperature or by curing at temperatures of 120-130°C for 1 hour. In the case of room temperature curing, the product will be dry-to-touch after approximately 3-4 hours (this type of curing will depend on the environmental conditions, reactivity and the type of substrate). Nevertheless, the product will show high performance after 24 hours, achieving the optimum curing after 1-2 weeks. It is recommended not to subject the treated surface to mechanical abrasion or intensive cleaning before this time.

## TECNADIS MULTICOAT ANTICORROSION

Nano ceramic protector with anti-corrosive properties for metals

### Notes:

- *In case of applying Tecnadis MULTICOAT ANTICORROSION PRIMER as an anti-corrosive primer in a multi-layer system, for the rest of products, follow the manufacturer's specific instructions.*

### Recommendations:

- Irritant. Apply it wearing a filter mask to protect yourself from gases and particles. Carry out the application in a well-ventilated place.
- If there is any product excess, remove it immediately with a dry cloth and a solvent such as acetone or isopropanol.

### Yields and storage

- **Dilution:** none
- **Recommended system:**
  - SINGLE SYSTEM: Tecnadis MULTICOAT ANTICORROSION PRIMER or FINISH as a single coat:
    - **Category C4 High: dry thickness 15 microns.**
    - **Category C5 High: dry thickness 25 microns.**

*These categories correspond to the criteria of tests carried out on the basis of UNE EN ISO 12944-6:2018.*
  - DUPLEX SYSTEM: Tecnadis MULTICOAT ANTICORROSION PRIMER used as a primer and combined with other coatings. For duplex system and C5 High protection, the following is recommended:
    - Primer: Tecnadis MULTICOAT ANTICORROSION PRIMER: 15 microns.
    - Finish: 2-component polyurethane enamel: 50 microns.
- **Yield:** Depending on the nature, porosity and roughness of the material:
  - AEROSOL: Average yield approx. 1-2 SqM/aerosol.
  - BULK: Average yield approx. 4-8 SqM/Ltr.  
For 15 microns dry thickness: Approx. 150ml/SqM.
- **Storage temperature:** between 5°C and 30°C; protect from direct sunlight; store tightly closed in original container.

## TECNADIS MULTICOAT ANTICORROSION

Nano ceramic protector with anti-corrosive properties for metals

Observations	<ul style="list-style-type: none"> <li>• Keep away from heat/open flames and avoid freezing.</li> <li>• Shake the product before its use. The material contained may settle slowly.</li> <li>• Tecnadis MULTICOAT ANTICORROSION has a shelf life of 12 months from the date of manufacture, stored in bulk, in the original tightly closed hermetic container at temperatures between 5°C and 30°C.</li> <li>• It is recommended to carry out an initial test on a small area of the material to be treated in order to verify the correct application of the product.</li> <li>• It is recommended to apply the product at temperatures between 5°C and 30°C.</li> <li>• This product is not suitable for medical or pharmaceutical uses.</li> </ul>
Handling precautions	Product safety information required for safe use is not included herein. Before handling, read material safety data sheets and container labels for safe use, physical, and health hazard information. Material safety data sheet (MSDS) is available from TECNAN.
Limited warranty information	<p><b>Please read it carefully:</b></p> <p>The information and recommendations in this document are given in good faith on the basis of TECNAN's experience and knowledge when stored, handled and applied correctly and under normal conditions within its useful life. However, because the conditions, types of materials to be treated and methods of use of our products are beyond our control, this information must be used correctly, verifying in preliminary tests that the product, the performance to be applied, the aesthetic finish and its purpose are suitable, even if other recommendations or advice have been received. TECNAN reserves the right to modify the properties of the product. TECNAN's only guarantee is that the product will comply with the sales specifications in force at the time of dispatch. Confirmation of payment and/or order implies acceptance of the product properties by the customer. TECNAN only guarantees the replacement of the product in the event of a manufacturing defect, and declines any other type of responsibility for the product, its application, as well as any additional damage it may cause. TECNAN specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability. TECNAN declines responsibility for any damage caused accidentally or in case of incorrect use. Users must be familiar with the latest updated version of the Technical Data Sheet and for that TECNAN will provide a copy on request.</p>