

## TECNADIS GRAFPROTECT ADVANCED

### Permanent protector against graffiti and general paint stains for multiple surfaces

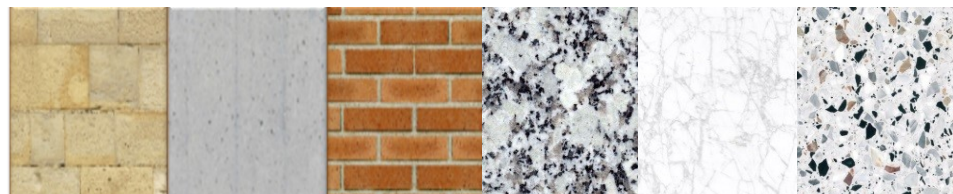
#### Product description

**Permanent ANTI-GRAFFITI protector (monocomponent), nanotechnology-based,** specially designed to protect multiple surfaces (porous, metallic, painted, plastic, among others), against paints, graffiti, markers, etc., facilitating their cleaning and removal by common cleaning procedures (see section how to clean graffiti).

#### Uses

Tecnadis GRAFPROTECT ADVANCED is suitable for the treatment of surfaces, pieces and objects, both indoor and outdoor, exposed to vandalism. This protector can be applied on the following materials:

- Porous or low porous materials: natural stone (sandstone, granite, limestone, marble, etc.), terrazzo, concrete, brick, and in general any construction substrate.
- Metallic materials: aluminum, copper, bronze, brass, enamelled steel, stainless steel, galvanized steel, etc.
- Painted materials.
- Plastics.
- Ceramic/porcelain materials.



NATURAL STONE

CONCRETE

FACING BRICK

GRANITE

MARBLE

TERRAZZO



STAINLESS STEEL

GALVANIZED STEEL

BRASS

PLASTICS

PAINTED MATERIALS

PORCELAIN

Designed to be applied also as a repellent to water, oil and stains in general, by means of surface treatment.

Especially recommended for exterior elements (facades, doors, street furniture, street lamps, electrical panels, tunnels, bridges, walls, sculptures, information panels, buses, streetcars, wagons, etc.).

#### Features and advantages

- Non-stick nano protector with easy-cleaning properties.
- It creates a protective film with a transparent finish, which provides some gloss and hardness to the treated surface.
- Withstands more than 10 cleaning cycles.
- Room temperature curing, dry to touch: 4-6 hours, high performance after 24h and complete curing after 4 days.
- Resistant to solvents and common cleaning products.

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- Easy application, by brush, roller or spray gun.
- Re-applicable. It is possible to re-apply the anti-graffiti protector without having to remove previous remains.
- With water-repellent and oil-repellent effect, it offers protection against graffiti and paints, reducing water and stains absorption on the treated support.
- Total UV resistance. The structure of the compound has no weak points that can be attacked by UV radiation, and therefore, its weathering resistance is far superior than conventional products on the market.

It can slightly modify the aesthetics of some of the treated materials by increasing the tone and adding a slight gloss. Before application, it is recommended to perform a preliminary test for approval of the finish, if such changes may be a limitation. In porous and low porous materials, the application of TECNADIS PRIMER attenuates and evens out potential aesthetic changes.

#### Product information.

##### Composition and physicochemical properties.

TECNADIS GRAFPROTECT ADVANCED	
Colour	White
Active compound	20-30%
Solvent	Ethanol
Density	0,85-1,05g/ml
pH	8-9

- **Presentation:** 1L, 5L, 25L (larger volumes on request).
- **Storage:** 12 months from the date of manufacture, closed in the original sealed containers at temperatures between 5°C and 30°C.

#### Surface preparation

Surfaces must be completely clean and dry before application; remove all traces of detergents, cleaners, dust, grease, stains, etc.

In the case of porous and low porous materials: Avoid the presence of fissures or cracks in the substrate. It is recommended, if possible, to remove them beforehand. Pay special attention also to materials with high porosity that may have "transport" pores or open pores of a considerable size as this may influence the final amount of product to be applied. In case of presence of microorganisms (moulds, algae, etc.), it is recommended to remove them thoroughly before applying the product.

In the case of metallic surfaces, it is recommended to completely remove all traces of rust or corrosion. Degrease the surfaces to be protected with appropriate solvents or cleaners.

On painted surfaces, wait for the curing time of the paint specified by the manufacturer before applying Tecnadis GRAFPROTECT ADVANCED.

It is recommended to carry out a preliminary test as described in the section "Yields and storage" to check the performance required in each situation, as well as the aesthetic finish.

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#### How to use

#### PREPARATION

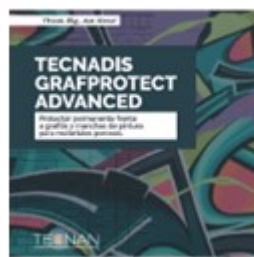
Shake the container vigorously before use to ensure homogeneity of the product.

#### APPLICATION

1. **POROUS MATERIALS:** On most porous surfaces, it is recommended to apply Tecnadis PRIMER (LAYER 1) to reduce the porosity of the support as well as to enhance the anti-graffiti effect and minimize the consumption of Tecnadis GRAFPROTECT ADVANCED (LAYER 2). Moreover, the application of Tecnadis PRIMER can prevent or attenuate potential tone changes due to Tecnadis GRAFPROTECT ADVANCED.



LAYER 1: TECNADIS  
PRIMER



LAYER 2: TECNADIS  
GRAFPROTECT ADVANCED

- STEP 1 – Application of the primer – Tecnadis PRIMER: Apply the product by spraying (airless, turbines, backpacks or hand-held sprayers), brush or roller.

#### Important:

In order to ensure that the substrate does not suffer much aesthetic change, it is advisable to apply Tecnadis PRIMER in proportion to substrate porosity, applying more product on very porous and rough materials, and less Tecnadis PRIMER on low porous and low roughness materials.

In the case of using Tecnadis PRIMER on materials with low porosity, it is recommended to dilute it with 50% water.

Let it dry at least for 2-4 hours before the application of Tecnadis GRAFPROTECT ADVANCED (STEP 2). Ensure that the surface is dry to touch before applying the anti-graffiti protector.

- STEP 2 – Application of Tecnadis GRAFPROTECT ADVANCED: Apply Tecnadis GRAFPROTECT ADVANCED by spraying (airless, turbines, backpacks or hand-held sprayers). Application by brush or roller is also possible.

2. **NON-POROUS MATERIALS:** Do not require the use of Tecnadis PRIMER.

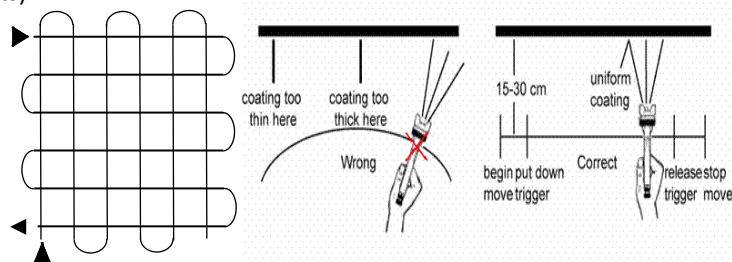
- STEP 1 – Application of Tecnadis GRAFPROTECT ADVANCED: Apply evenly on the surface to be protected, avoiding as much as possible excesses and sagging. For this purpose, it is recommended to apply the product using a compressed air gun or electric airless spray gun. Application by brush or roller is also possible.

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Graphic description, application method by spraying:

Application (2 coats):



#### **DRYING**

Tecnadis GRAFPROTECT ADVANCED has a dry-to-touch time of approximately 4-6 hours. Full curing after 4 days. These times vary depending on the environmental conditions and the type of substrate.

Recommendations:

- The maximum anti-graffiti effect is achieved after complete curing (4 days). It is recommended to avoid graffiti during this time.
- In case of graffiti exposure before complete curing (4 days), it is recommended to remove the graffiti and apply the product again.
- In case of any excess, remove the product immediately with a dry cloth and a solvent such as acetone or isopropanol.
- It is recommended to avoid application in case of high humidity or rain forecast.
- Working tools: After use, clean them with a compatible solvent.
- Irritant. Apply with filtering mask for protection against gases and particles. Carry out application in a well-ventilated place.

#### **How to clean graffiti**

Tecnadis GRAFPROTECT ADVANCED facilitates the removal of graffiti and withstands several cleaning cycles.

For the removal of paints and graffiti, it is advisable to follow the guidelines below:

- Markers and felt-tip pens can be easily removed with a cloth dampened with alcohol (ethanol) or a universal solvent. They can also be cleaned with soapy water.
- The following procedure is recommended for the removal of graffiti:
  - First it must be softened with alcohol, universal solvent or turpentine. Leave to act for a few minutes and proceed to the paint removal step. The use of a soft bristle brush or brush to distribute the cleaner can be useful to help soften the paint.
  - The graffiti can then be removed using different tools such as cloths, sponges or similar. In the case of large surfaces, it is common to use pressure washers or water spraying equipment. If necessary, in order to facilitate cleaning, water can be hot. Adjust water stream at 45° angle to the substrate and with an adequate pressure.

Repeat this process, if necessary, until the graffiti is completely removed.

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#### Yield and storage

- Dilution: none.
- Yield: Always apply the necessary quantity depending on the type of material. It is recommended to carry out a preliminary test before application in order to determine the proper yield in each case. A reference table with generic yields is given below, although there can always be exceptions, so it is advisable to test beforehand to ensure the necessary quantity:

INDICATIVE TOTAL YIELDS	
POROUS AND LOW POROUS MATERIALS	TOTAL (m <sup>2</sup> /litre)
Marble and low porous limestone, terrazzo, polished concrete	8 – 10
Granite, facing brick, non-polished concrete, tiles	7 – 9
Sandstone, coarse concrete, high porous limestone	6 – 8
MULTISURFACES – NON-POROUS MATERIALS	TOTAL (m <sup>2</sup> /litre)
Metals, Plastics, Painted Surfaces, Ceramic / Porcelain surfaces	7 – 9

- Dry to touch: 4 - 6 hours (this will depend on environmental conditions, reactivity and substrate type).
- Complete drying time: 4 days. The maximum anti-graffiti effect is achieved after complete curing; it is recommended to avoid graffiti exposure during this time.
- Operating temperature: between 5°C and 30°C.
- Storage temperature: between 5°C and 30°C; protect from direct sunlight; store tightly closed in the original container.

#### Observations

- For maximum effectiveness, it is recommended to apply the product at temperatures between 5°C and 30°C.
- As protective measures, the same as with any kind of paint are recommended: work clothes, gloves and mask for protection against gases and particles. Carry out application in a well-ventilated place.
- Perform an initial test in an inconspicuous area to check performance and approve aesthetic finish.
- This product is not suitable for medical or pharmaceutical uses.

#### Handling precautions

Product information necessary for safe use is not included herein. Before handling the product, read the material safety data sheets and package labels for safe use and for information on physical and health hazards. Material safety data sheets are available and supplied by TECNAN. The product must be applied in a well-ventilated area. It contains volatile solvents.

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#### Limited warranty information

#### Please read it carefully:

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 yield to be applied, the aesthetic finish, its purpose and its performance 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.