

TECNADIS GRAFPROTECT
Permanent protection against graffiti and general paint stains for porous building materials

<p>Product description</p>	<p>Permanent ANTI-GRAFFITI protector, nanotechnology-based, specially designed to protect porous building materials. It protects surfaces against paints, graffiti, markers, etc., facilitating their cleaning and removal by common cleaning procedures. Bi-component product, consisting of BASE and ACTIVATOR, to be mixed in the proportions supplied.</p>
<p>Uses</p>	<p>All types of surfaces, pieces and objects made of porous or low porosity materials that may be exposed to paint (and any kind of stain).</p> <p>Suitable for surface treatment of terrazzo, marble, granite, concrete, brick, sandstone, and in general any constructive substrate, both in outdoor and indoor applications.</p> <p>Designed to be applied also as a repellent to water, oil and stains in general, by means of surface treatment.</p> <p>Especially recommended for exterior elements (facades, bridges, walls, beams, etc.). It can modify the tone of the substrate, so it is recommended to carry out a previous test for suitability.</p> <div data-bbox="469 972 1422 1160" style="text-align: center;">  <p>NATURAL STONE CONCRETE FACING BRICK GRANITE MARBLE TERRAZZO</p> </div>
<p>Features and advantages</p>	<ul style="list-style-type: none"> ▪ Product with permanent anti-graffiti effect (allows more than 10 cleaning cycles). ▪ With water and oil repellent effect, it provides permanent protection against graffiti and paint, also reducing the absorption of water and stains on the treated substrate. ▪ Specially formulated to allow the substrate to breathe. High water vapour permeability, allowing natural processes through its pores. ▪ Total UV resistance. The structure of the compound has no weak points that can be attacked by UV radiation, and therefore the weather resistance is far superior to that of its competitors. ▪ It can modify the aesthetics of treated material by increasing the tone and adding gloss. Preliminary testing is recommended if these changes may be a limitation.
<p>Product information. Composition and physicochemical properties.</p>	<ul style="list-style-type: none"> ▪ Colour: Translucent liquid ▪ Packaging: 1L, 5L and 25L (larger volumes on request) ▪ Storage: 12 months from the date of manufacture in the original sealed containers at temperatures between 5°C and 30°C. ▪ Volatile Organic Content (VOC) <50% wt ▪ Density: 1 g/ml approx. ▪ Viscosity: 25-75 cP ▪ Boiling point: 82,5°C ▪ Flash point: 11,85°C ▪ Solvent: Isopropanol <div data-bbox="1187 1760 1406 1957" style="text-align: right;">  </div>

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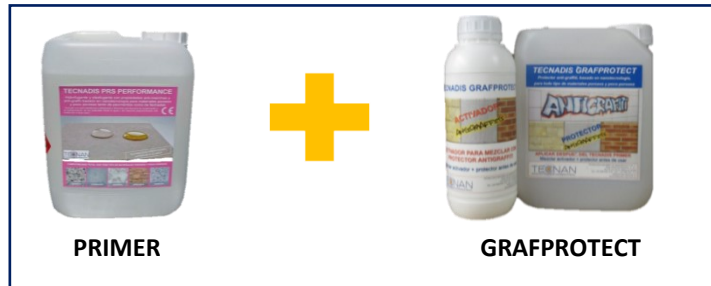
Surface preparation

Before application, clean the surface and remove all traces of detergents and cleaners. The surface must be completely clean. 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. For this purpose, it is recommended to carry out a preliminary test as described in the section "Yields and storage". In case of presence of microorganisms (moulds, algae, etc.) it is recommended to remove them thoroughly before the application of the product.

Application information

PRIMER (TECNADIS PRS PERFORMANCE)

- In most porous surfaces, the application of TECNADIS PRS PERFORMANCE, a solvent-based primer, is recommended in order to favour the adherence of the product on the surface, as well as to enhance the anti-graffiti effect and reduce its consumption.
- TECNADIS PRS PERFORMANCE will be used to subsequently fix the anti-graffiti (GRAFPROTECT) and reduce the absorption of the substrate. The application of TECNADIS PRS PERFORMANCE reduces the change in tone caused by the saturation of GRAFPROTECT.



TECNADIS GRAFPROTECT

- Bi-component product, which must be mixed before application.



- SHAKE CONTAINERS (BASE AND ACTIVATOR) BEFORE USE.
- MIX BASE AND ACTIVATOR IN PROPORTION: 4 PARTS in volume of BASE + 1 PART in volume of ACTIVATOR.



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APPLICATION METHOD:

- **STEP 1 - CLEANING AND PREPARATION OF THE SUBSTRATE.** The surface must be clean and dry. Avoid the presence of dust or solid particles of any nature on the surface.
- **STEP 2 - APPLICATION OF PRIMER (TECNADIS PRS PERFORMANCE):** Apply the product by spraying preferably (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 recommended to apply the PRIMER until saturation, especially in very porous materials. In the case of low porosity substrates, apply the amount of product that the material requires. Let the PRIMER dry, if possible, for at least 4 hours before STEP 4 ("Application of GRAFPROTECT").
- The surface should be dry to touch or, if after carrying out a small test with water, total repellence occurs, so the surface is ready for the application of GRAFPROTECT.
- **STEP 3 – PREPARATION OF GRAFPROTECT:** GRAFPROTECT is always supplied in a **1:4 ratio** so that the content of the container labelled ACTIVATOR is poured into the container labelled BASE. The BASE container admits the supplied volume of ACTIVATOR until the final volume is complete. **MIX AND SHAKE BEFORE USE.** Example: 1 litre of ACTIVATOR + 4 litres of BASE, provide 5 litres of GRAFPROTECT.
Important: The mixture of both components can be used up to 48 hours after mixing.
- **STEP 4 – APPLICATION OF GRAFPROTECT:** Apply GRAFPROTECT, previously mixed, by brush, roller or simple spraying equipment such as an electric (airless) spray gun with a refillable tank in the gun itself. The high performance of the product implies that it is not necessary to use large equipment or to apply a large quantity.
Important: Apply the product by spraying, preferably (airless, turbines, backpacks or hand-held sprayers), brush or roller. The optimum effect will be achieved after a complete drying time of 72 hours.
The surface must be totally covered with GRAFPROTECT after the PRIMER has dried completely and the surface shows repellent properties. Once the PRIMER has been properly applied, the substrate will barely absorb GRAFPROTECT. It is recommended to go over the application of GRAFPROTECT with a cloth, roller or brush to achieve a better distribution of the product and a better aesthetic finish.
- Dry to touch: after 1 hour approx. The optimal effect is achieved after 72 hours.

Graphic description: application method by spraying

Application (2 coats):

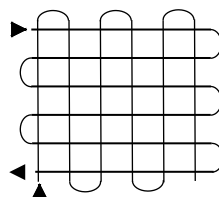


Figure 1

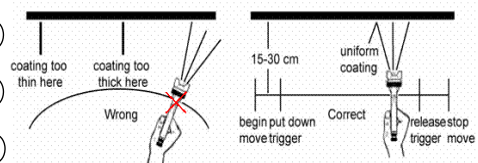


Figure 2

- Working tools: After use, clean with a compatible solvent.

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HOW TO CLEAN GRAFFITI:

- Markers and felt-tip pens can be easily removed immediately with a cloth dampened with alcohol or acetone. They can also be cleaned simply with soapy water.
- In case of heavy graffiti, it should first be softened or with a simple alcohol/acetone-based solvent or with specific anti-graffiti cleaners. Leave for a few minutes and move on to the paint removal step. Occasionally it is useful to use a brush to distribute the solvent or cleaner so that the rubbing and spreading action of the solvent causes a better softening of the paint.
- The next step is to remove the graffiti. Different tools such as cloths, sponges or similar can be used. In the case of large surfaces, it is common to use pressure washers or water spraying equipment. If necessary to facilitate cleaning, water can be hot. Direct the water stream at 45° angle to the substrate.
- These two operations must be repeated until the graffiti is completely removed.
- Please note that “universal” solvents can also be used to soften the graffiti.

Yield and storage

- Dilution: none
- Yield: Always apply the required amount of product, which will depend on the quality and porosity of the material. It is recommended to carry out a preliminary test before application in order to determine the proper yield in each case. The following is a reference table with generic yields, although there can always be exceptions, so it is advisable to test beforehand to ensure the necessary quantity:

TOTAL YIELD (For guidance only)

MATERIAL	TOTAL (m ² /litre)
Marble and low porous limestone, terrazzo, polished concrete	15 - 17
Granite, facing brick, non-polished concrete, tiles	12,5 - 15
Sandstone, coarse concrete, high porous limestone.	10 – 12,5

- Dry to touch: 30-60 minutes.
- Complete drying time: 72 hours.
- 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.
- Post-life: the mixture remains active for up to 48 hours after mixing, in a closed 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 a simple gas mask.
- Carry out an initial test on painted surfaces to avoid the appearance of discoloration caused by the solvent in the product.
- This product is not suitable for medical or pharmaceutical use.

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Handling precautions

Product information necessary for safe use is not included in this document. 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 solvent (isopropanol).

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 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.