



Rev 0  
06/22



# TEKCELAN WALL

Permanent graffiti protection for porous mineral building materials



## DESCRIPTION

TEKCLEAN WALL is an aqueous silane system that protects the surfaces of porous mineral building material from graffiti.

It is virtually free of volatile organic components (VOCs). TEKCLEAN WALL provides weatherproof protection, and is permeable to water vapor.

## APPLICATIONS

TEKCLEAN WALL can be used as a graffiti repellent on mineral building materials such as:

- Concrete
- Bricks / clinker
- Sandstone
- Limestone sand
- Mineral-based filler (with limits)
- Marble and granite

It is not recommended to apply TEKCLEAN WALL on painted surfaces and plaster.

## FEATURES

TEKCLEAN WALL:

- protects from graffiti
- repels water, oil and solvent-based paints on porous mineral building materials
- makes the substrate hydro and oleophobic
- provides permanent protection: even after repeated cleaning, re-application is not required

## APPLICATION

Before each application, we recommend that test tests be carried out and observed to determine its consumption, to verify compatibility with the substrate and to avoid unwanted color changes of the substrate.

### Step 1

The surface of the façade to be impregnated must be clean and dry. Stains, algae, moss or substances such as disarming oil must be removed completely to avoid possible and unwanted interactions. Any water absorbed by the surface during the cleaning process itself must dry up completely before application.

Cracks, gaps and imperfect joints must be properly repaired. The newly applied repair mortar must be allowed to polymerize and the surface must be dry and hardened.

Adjacent surfaces, such as windows, painted or unpainted surfaces, glass, plants and soil that should not come into contact with the product should be covered with appropriate materials (e.g. plastic sheets) to protect them from splashing and runoff. In the case of polished surfaces such as marble or granite, several layers of product are not required.

TECHNICAL DATA SHEET



TEKNA CHEM S.p.A.

Headquarters: Renate (MB) - Via Sirtori, z.i. 20838 - Tel. +39 0362.91.83.11

Web: [www.teknachemgroup.com](http://www.teknachemgroup.com) - E-mail: [info@teknachemgroup.com](mailto:info@teknachemgroup.com) - Fax: +39 0362.91.93.96



Treatment of these substrates should be carried out by polishing with a microfiber cloth or glove.

## Step 2

TEKCLEAR WALL is a ready-to-use product. The best results will be obtained using HVLP (High Volume Low Pressure) equipment. Due to their low atomization pressure of no more than 0.7bar/10psi, these high-performance low-spray emission guns produce much less nebulization with a high material ejection rate. The low internal pressure of the nozzle reduces the bounce of paint drops from the object. HVLP high-performance spray guns produce a fine, soft and homogeneous spray that allows a wide and uniform application of the material.

TEKCLEAR WALL is particularly easy to handle with nozzles from 1.3 mm to 1.5 mm.

The first application should be done from the bottom up to prevent it from discharging and at once to avoid overlapping. Large drops should be wiped out with a brush. A trampling effect will develop in a few minutes.

## Step 3

Additional applications are required to provide permanent protection against graffiti. The surface must dry completely between each step. HVLP systems are also the best way to apply the subsequent hands of the product. A thin coating of liquid droplets will form on the surface. This must be rubbed with a large brush as quickly as possible before the droplets can dry out. Care should be taken to ensure that the impregnation is evenly distributed (that is, that the surface is evenly wet, the surface should look bright and wet). The next coat can be applied as soon as the surface of the previous coating has been dried. Required drying times vary between 10 minutes and 1 hour depending on environmental conditions.

TEKCLEAR WALL should not be applied on uncovered or unprotected surfaces during rain or strong winds.

Examples of surfaces	Approximate total product consumption/comments
Polished mineral honed marble, granite	20 - 50 g/m <sup>2</sup>
Porous granite	60-100 g/m <sup>2</sup> In most cases, a primer and 2 application steps are needed
Granite with very high porosity, facade bricks, clinker	80-120 g/m <sup>2</sup> In most cases a primer is needed, 2-3 application steps
Concrete	100-150 g/m <sup>2</sup> <b>Nella maggior parte dei casi è necessario un primer, 2-3 fasi di applicazione</b>
Coarse and porous sandstone, lightweight concrete, limestone	140-160 g/m <sup>2</sup> In most cases a primer is needed, 2-3 application steps
Very porous sandstone, plaster, gypsum, textured surfaces (with limitations)	140-200 g/m <sup>2</sup> Product consumption depends on the primer and surface texture, 2-3 application steps

## GRAFFITI CLEANUP

If TEKCELAN WALL is attached with a graffiti paint, you must use a viscous detergent, suitable for cleaning. Detergent should be applied only on a dry surface. The cleaner should interact with the paint for about 15-30 minutes. Do not let the detergent dry on the surface. After applying about 400 g/m<sup>2</sup> of detergent, it should be distributed thoroughly over the paint and the surface of the substrate. You may need to apply such a detergent several times. After the paints are dissolved, they can be washed off with a jet of water at high pressure (with a maximum of 12 bar). If bituminous-based paints have been applied to the surface, then additional use of a special bitumen cleaner may be required.



TEKNA CHEM S.p.A.

Headquarters: Renate (MB) - Via Sirtori, z.i. 20838 - Tel. +39 0362.91.83.11

Web: [www.teknachemgroup.com](http://www.teknachemgroup.com) - E-mail: [info@teknachemgroup.com](mailto:info@teknachemgroup.com) - Fax: +39 0362.91.93.96



## TECHNICAL FEATURES

State	liquid
Color	yellow-orange slightly cloudy
pH	4 ± 1
Flash point	> 95 °C
Density	1.06 ± 0.02 g/cm <sup>3</sup>
Viscosity	around 1.6 mPa.s
Application temperature	+10 °C e +35 °C

## CONSUMPTION

The number of applications and the amount of TEKCLEAN WALL required depend on the substrate and the desired effect. In general, porous materials require more hands than dense microporous materials. It is necessary to apply several layers of TEKCLEAN WALL to provide protection against graffiti. Very porous and absorbent surfaces consume more product than smooth, dense and microporous materials. The table provides examples of required quantities. It is advisable to prepare test tests to verify the yield, any discoloration, necessary working and waiting times, as well as the consumption per m<sup>2</sup>. Polished surfaces (marble, granite) are treated with one hand. In such cases the product must be polished on the substrate.

## PRECAUTIONS/WARNINGS

Under normal conditions of use, the product is not harmful to its handlers. During the application do not eat, do not drink and do not smoke, use protective clothing such as gloves, glasses and mask.

## PACKAGING AND STORAGE

Taniche da 25 kg tanks  
Fusti da 200 kg drums  
1000 kg tanks

In original packaging and stored under cover at temperatures between +5°C and +35°C, the product will keep for 12 months.

## LEGAL NOTICES

The information contained in this technical data sheet, while representing the most advanced stage of knowledge, does not exempt the user from carrying out accurate preliminary tests in their own conditions of use and operation. We therefore decline any responsibility for improper use of the product.

