



## (Renewable) temporary sacrificial coating for effortless graffiti removal.

### Product description:

**KTX 05** is a one-component and water-based product which is colorless after drying and is used for protecting surfaces against graffiti. The coated surface is protected against aerosol spray paints, water-based markers, atmospheric pollution, dirt, acid rain and moisture. After application, KTX 05 accumulates on capillaries and pores' walls as a separating layer, which prevents penetration into the substrate and reduces adhesiveness of paints/pigments. The coating is performed using two layers.

**KTX 05** is a hydrophobic preparation, has preservative properties as well as UV filters, thanks to which the colour of the protected surface remains unchanged.

It reduces mineral substrates' permeability to water and harmful substances.

The substrate colour tone becomes slightly deeper, while the gloss increases a little with the surface texture remains unaffected. Available in a semi-matte version.

**KTX 05 has been awarded Technical Approval of IBDiM: No. AT/2016-02-3286.**

### Technical Data:

Solid substance content: 7.5 - 8,5%.

Density: approx. 0,99 g/cm<sup>3</sup>.

Water vapour permeability: ≤4 m. (PN-EN ISO 7783)

CO<sub>2</sub> permeability: ≥ 50. (PN-EN 1062-6)

Capillary absorption: ≤ 0,1 kgm<sup>-2</sup>h<sup>-0,5</sup>. (PN-EN 1062-3)

Appearance: white, milky.

### Technical data after application:

Coating durability: 7 years.

Hydrophobic product. It does not present significant reduction in water vapour diffusion, it is UV-resistant, alkaline-resistant and dries without becoming sticky.

### Appearance on the substrate:

The coating has a semi-matte or satin look, which may be more or less visible depending on the substrate type, amount and angle of sunlight incidence. Some absorbent substrates e.g. concrete, sandstone may become darker.

### Areas of application:

KTX 05 can be used for protection of both smooth and porous substrates, made from brick, plaster, concrete, natural stone such as sandstone, granite, travertine, as well as sculptures, monuments and thermal insulating systems. It can also be applied onto unabsorbent substrates like ceramics, plastics, steel, varnish, wood. For various paint coatings, it is recommended that preliminary resilience tests should be conducted for hot water and chemical coating removal. Not suitable for rotten substrates.

### Substrate:

Substrate must be cleansed of any atmospheric pollutants, dirt, harmful substances, oil, grease as well as stains of biological or organic origin. Thanks to the cleansing capillaries and pores absorb the protective preparation. The residue of cleansing substances may adversely influence the functioning of KTX 05 so it has to be thoroughly removed, too.



In case sulphates, chlorides or nitrates are detected, their thorough quantitative analysis is recommended. High concentrations of these salts may result in serious construction damage which cannot be prevented by using preservatives or impregnation.

The part of the elevation which should not be affected by the protective coating should be covered with construction foil.

**Application conditions:**

KTX 05 can be applied onto dry and damp surfaces.

Application of the coating onto wet substrate will cause its deep penetration into the material and ineffective protection against graffiti.

Anti-graffiti coating should be formed on the outside of the protected substrate.

KTX 05 can also be applied onto previously impregnated surfaces – it reduces coating consumption. Relative air humidity should not exceed 95%.

Suitable temperature for application of the coating: from + 7°C to +30°C.

**Application:**

Before application, shake or stir the preparation with a slow-running mixer.

KTX 05 can be applied using typical painting tools: rollers or brushes (they must be well soaked with the preparation) or flow coating method, with an airless hydrodynamic spraying device with a 12-17 wide spray nozzle, low pressure spraying.

Application of anti-graffiti coating: +7 do +30°C.

Drying time at temp.of +22°C: approx. 20 minutes.

The coating must be applied thoroughly, filling all cracks and irregularities in the surface.

Neglecting this may cause difficulties in removing graffiti. KTX 05 can be applied in two layers. If streaks appear, they should be smoothed with a roller before drying.

Consecutive layers can be applied after the previous layer has dried.

On extremely absorbent surfaces e.x. concrete, sandstone it is recommended to wait for 2 - 4 h depending on the outdoor temperature and the substrate temperature and humidity.

If further layers of KTX 05 are applied onto fully dried first layer, its consumption decreases. Also, the other layers are formed on the outside of the first one thanks to which the surface is 100% certain to be fully protected. All the layers in the course of application should be protected against rainfall for approx. 4 hrs. On 24 hrs of the application the coating assumes its anti-graffiti properties and becomes fully resistant after 7 days

Large amount of sunlight may accelerate vehicle evaporation, which may adversely affect the cross-linking of the coating. In order to avoid contamination of the coating with bacteria and fungi from the surrounding air, the packaging must be open only with the purpose of pouring a portion and closed tightly. Once opened, the whole content should be used up as soon as possible.

**Removing graffiti:**

Graffiti can be removed using a high-pressure cleaner with water temperature of 80°C to 120°C and pressure from 40 to 140 bar at a distance of approx. 20 cm. Before taking to actual graffiti removal the cleaned space should be warmed up with a weak hot water jet (approx. 80°C) Before starting, the substrate durability should be checked and water jet parameters as well as removal technology (water cleaner or chemical remover).

If water temperature is to be 80°C on the cleaned surface, it must be suitably higher inside the container. Graffiti can also be removed by the KT 07 chemical remover. KT 07 can be applied with a brush or spray. After several seconds to several minutes one can remove



the graffiti with an absorptive cloth or rinse it with warm water.

On removal of the graffiti the substrate should be protected again (in line with the instructions) as the protective film is removed along with the graffiti painting.

The protected substrate may be damaged if the pressure/temperature is too high, or if a fast-rotating nozzle or a thin nozzle jet is used, or if the cleaning end of the lance is too close to the surface.

**Wear:**

The basic rule is to apply two layers and use the appropriate amount of coating per 1 sq. m. Do not exceed the recommended consumption values.

Theoretical spread rate: **3.3 m<sup>2</sup>/L** (0,3 l/m<sup>2</sup>) to **6.5 m<sup>2</sup>/L** (0,15 l/m<sup>2</sup>)

Theoretical spread rate refers to approximate values denoting extreme consumption figures which may vary depending on the type of the protected substrate.

Absorbent porous surfaces: **3.3 m<sup>2</sup>/L** (0.30 l/m<sup>2</sup>) to **5 m<sup>2</sup>/L** (0.20 l/m<sup>2</sup>)

e.g.: plasters, brick, concrete, sandstone.

Smooth slightly absorbent surfaces : **5 m<sup>2</sup>/L** (0,20 l/m<sup>2</sup>) to **6.5 m<sup>2</sup>/L** (0,15 l/m<sup>2</sup>)

e.g.: facade paints.

Smooth non-absorbent surfaces: to **6.5 m<sup>2</sup>/L** (0,15 l/m<sup>2</sup>)

e.g.: steel, ceramics, granite

Practical spread rate depends on particular situations and applications, incl. conditions during application, application method, shape and roughness of the protected surface as well as substrate absorptiveness and wastage during application.

**Packaging:**

Plastic containers: 1 L, 5 L, 10 L, 20 L. Barrels: 150 L.

**Storage:**

Temperature from + 5° to + 25°C.

Protect against sunlight.

**Durability:**

12 months in closed original container.

**Cleaning the equipment:**

For cleaning painting tools and accessories use warm water.

Do not allow the preparation to dry.

**Safety instructions:**

Pay attention to the surrounding environment and follow the regulations for work with chemicals. Keep away from children. Wear protective gloves, goggles and clothing during work. Use individual respiratory protection equipment. The gloves should be made of nitrile rubber. Prolonged contact with the product may result in skin dryness.

Use protective hand cream.



**Labelling:**

Does not require labelling.

ADR/RID: the product is not classified as hazardous in transport.

**Further information:**

Information about safety in transport, storage and application as well as disposal and environmental protection is found in the product Safety Data Sheet.

The above information has been conceived in our production department in accordance with our knowledge and usage techniques. Since ways of application and usage are beyond our control, no liability of the producer can be derived from the contents of this instruction sheet.

Due to various factors occurring when dealing with the product, the user should not depart from conducting any test trials and should follow the regulations in force at his/her own responsibility and risk.

The present Technical Data Sheet was produced on: 20.09.2021.

The issue of the present Technical Data Sheet renders the older editions invalid.