



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

Product description:

KTX 05 is a microcrystalline-wax and water-based, milky product which is colourless 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. On application, KTX 05 accumulates on capillaries and pores' walls as a separating layer, which makes the surface impermeable to water and hazardous substances and reduces adhesiveness of paints/pigments.

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 hazardous substances.

The substrate colour tone becomes slightly deeper, while the gloss increases a little with the surface texture remains unaffected.

KTX 07 has been awarded Technical Approval of IBDiM: No. AT/2016-02-3286.

Technical Data:

Solid substance content: 7.5 - 10%

Density: approx. 0,99 g/cm³

pH: 7.5 – 8

Water vapour permeability: SD, H₂O ≤ 4, PN-EN ISO 7783

CO₂ permeability: SD, CO₂ ≥ 50, PN-EN 1062-6

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 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 may become darker, which may be prevented or minimized by using PX 07 primer.

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, hazardous 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:

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

Relative air humidity should not exceed 95%.

KTX 05 can be applied onto dry and damp surfaces, but not onto wet ones.

Very absorptive substrates must be entirely dry because application of the coating onto wet substrate will cause its deep penetration into the material.

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.

Application:

Before application, shake or stir the preparation with a slow-running mixer. KTX 05 can be applied using flow coating method, with an airless hydrodynamic spraying device with a 12-17 nozzle. Alternatively, rollers or brushes can be used, but they must be well soaked with the preparation. If streaks appear, they should be smoothed with a roller before drying.

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 several layers depending on the absorptiveness and texture of the substrate and the method of application. Consecutive layers can be applied after the previous layer has dried within the same working cycle. On extremely absorbent surfaces it is recommended to wait for 20 h depending on the outdoor temperature and the substrate temperature and humidity. On very absorptive surfaces it is advisable to use PX 07 primer first in order to increase the spreading rate. 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. 2 hrs. On 24 hrs of the application the coating assumes its anti-graffiti properties.

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 100° 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); next we can increase the water pressure and start removing the graffiti. 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. The water jet applied onto the construction material with the temperature of 80° C, pressure of 50 bar and at the angle of 40° and from the distance of 1 m has approx. 35° C on the surface of this material. One should assume that with low pressure and high temperature e.g. 50 bar and 100° C a much better cleaning result can be obtained than with high pressure and low temperature e.g. 120 bar and 80° C.

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 under pressure of approx. 50 bar. In case any of the graffiti remains, the operation should be repeated.

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 an appropriate amount of coating per 1 sq. m. It is recommended to apply 4-5 layers onto absorbent porous materials.

In order to increase spread rate on absorptive surfaces primer is recommended:

PX 07: up to 12 m²/1L, one layer.

Theoretical spread rate: 3.3 m²/1 L (303 ml/m²) to 6.5 m² /1 L (154ml/1 m²)

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 m²/1 L (0.30 l/m²) to 5 m²/1 L (0.20 l/m²)

Plaster: 0.25 – 0.30 L/m²

Brick: 0.20 – 0.30 L/m²

Clinker: 0.20 – 0.25 L/m²

Granite: 0.20 – 0.30 L/m²

Concrete: 0.20 – 0.30 L/m²

Sandstone: 0.25 – 0.30 L/m²

Smooth non-absorbent surfaces: to 6.5 m² / 1 L

Steel, ceramics 0.15 L/m²

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.
Use xylene or hot water for cleaning in case the preparation should 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: 30th April 2017.

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