



Temporary, sacrificial (renewable) coating for effortless graffiti removal

Product description:

KTX 05 strong is a single-component, water-based product containing microcrystalline-wax. It 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 strong accumulates on capillaries and pores' walls as a separating layer, which makes the surface impermeable to water and reduces adhesiveness of paints/pigments.

It is applicable in 1 layer.

KTX 05 strong 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 decreases a little with the surface texture remaining unaffected. Availabe in a semi-matte version.

Technical Data:

Solid substance content: 20%. Density: approx. 1,00 g/cm³.

pH: approx. 7-8.

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

CO2 permeability: ≥ 50 m. (PN-EN 1062-6)

Capillary absorption: ≤ 0,1 kgm⁻²h^{-0,5}. (PN-EN 1062-3)

Appearance: white, milky.

Technical data after application:

Coating durability: 5 years. Hydrophobic product. It does not present significant reduction in water vapour diffusion; UV-resistance: 500 h, alkaline-resistance; dries without becoming sticky. Maximum graffiti removal time from its application: unlimited.

Appearance on the substrate:

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

Areas of application:

KTX 05 strong can be used for protection of both smooth and porous substrates, made from sand-lime blocks, brick, clinker, paint coatings, plaster, concrete, natural stone such as sandstone, granite, travertine, as well as sculptures, monuments and thermal insulating systems. It cannot be applied onto unabsorbent substrates like steel, plastics, substrates covered with powder coatings etc. For various paint coatings, it is recommended that preliminary resilience tests should be conducted for coating removal with hot water/high pressure and chemical removal. The coating is recommended for surfaces often painted with graffiti, like in underground passages where frequent and fast action is required. 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, opened capillaries and pores absorb the protective preparation. The residue of cleansing substances may adversely influence the functioning of KTX 05 strong so it has to be thoroughly removed, too. In case harmful salts should be detected, their thorough quantitative analysis is indispensable. High concentrations of salts may result in serious construction damage which cannot be prevented by using impregnation. The parts of the elevation which should not be affected by the protective coating should be covered with construction foil.

External conditions for application:

KTX 05 strong should be applied onto dry 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 strong can be applied onto earlier hydrophobised surfaces - it reduces coating consumption.

Relative air humidity should not exceed 90%.

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 strong 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 strong should be applied in one layer until the substrate has been fully saturated. If streaks appear because of the agent surplus, they should be smoothened with a roller before drying. Consecutive layers cannot be applied after the first layer has dried. If another layer is applied, it may result in visible droplets/streaks accumulating on the surface of the first layer. This is because a superhydrophobic layer is created which due to its surface tension repels water-based agents and dirt pouring down with rainwater. If some corrections are necessary, they must be done immediately or according to the "wet on wet" principle of applying consecutive layers, i.e. the following layer must be applied just before the first one reaches initial dryness stage (powder dryness) in the single work cycle – the substrate should be still damp.

The coating 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 from the protected surface using a high-pressure cleaner supplying a hot water stream with temperature of 80°C to 120°C and pressure from 40 to 120 bar at a distance of approx. 20 cm. Before starting actual graffiti removal the cleaned space should be warmed up with a weak hot water jet. Before graffiti removal, the substrate durability should be checked and water jet parameters adapted as well as the choice of 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 means of a chemical remover. KT 01 can be applied with a spray or brush. 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 paint.

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 1 complete/tight coat.

Theoretical spread rate: 11 m²/L (90 ml/m²) up to 20 m²/L (50 ml/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: up to 11 m²/L (90 ml/m²)

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

Smooth non-absorbent surfaces: up to 20 m²/L (50 ml/m²)

e.g. surfaces covered with elevation paint, anticorrosive or hydrophobic paints.

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

Packaging:

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

Barrels: 150 L.

Storage:

Temperature from + 5° to + 25° C.

Protect against sunlight.

Durability:

12 months in closed original container.







Cleaning the tools:

For cleaning the painting tools and accessories use warm water.

Do not allow the preparation to dry.

Use suitable solvent 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.

Labelling:



CAUTION

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 the 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 their own responsibility.

The Technical Data Sheet was updated on: 22.09.2020.

The issue of the present Technical Data Sheet renders the previous versions invalid.

