



## Permanent coating to facilitate graffiti removal

### Product description:

**KTX 07** is a unique, single component, colourlessly drying agent based on synthetic organosilicon polymers, applicable for surface protection against graffiti, with a strong protective, anti-adhesive function, which makes it difficult or even impossible to stick posters, stickers, and adhesive tapes.

It is fast-drying; it cures under the influence of moisture contained in the air and has good adhesive qualities. The treated surface is ideally protected against aerosol graffiti paints and most commercially available markers, ink, changeable weather conditions, bird droppings, dirt, acid rain, chewing gum, posters, stickers and glue. It also prevents penetration by water and hazardous substances.

On its application, KTX 07 constitutes an anticorrosion release liner which prevents paints/pigments/glues from penetrating into the substrate, reduces their adhesiveness and makes it easy to remove.

KTX 07 is a diffusion open product with preservative properties and UV filters thanks to which it retains the colour of the protected surface.

Texture of protected surfaces is maintained.

It is available in options: glossy, matte/semi-matte, RAL colour.

**KTX 07 has been awarded technical Approval by IBDiM: No. AT/2016-02- 3286.**

### Technical data:

Solid substance content: 50 – 60%

Density in 20°C: 0,89 g/cm<sup>3</sup>

Appearance: colourless to grey

VOC (Volatile Organic Compounds): 470 g/l

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

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

Capillary absorption: ≤ 0,1 kg•m<sup>2</sup>•h<sup>0.5</sup>. PN-EN 1062-3.

Crack sealing class: A2. PN -EN 1062-7.

Impact resistibility: Class I resistance > 4 Nm. PN-EN ISO 672-1:2011.

Durability of the coating amounts to 20 years. Removal of graffiti: up to 100 cycles. (first degree removability)

Dried coating thickness: approx. 180 µm. Full anti-graffiti protection is achieved after 8 hours.

The coating has anti-adhesive and anti-poster properties. It also functions as an anti-corrosion layer and an elastomer with high formability, durability and resistance to adverse thermic, biological or chemical factors and UV, alkali, corrosion, salt and ammonia solutions. KTX 07 is durable system facilitating multiple removal of graffiti paints.

**Appearance on the substrate**

The coating can look either matte/semi-matte or glossy (depending on the selected option) which can be more or less visible depending on the type of substrate, amount and angle of sunlight. Some absorptive surfaces, e.g. concrete, may become darker. This can be prevented or minimised by using PX 07 primer first.

**Areas of application:**

KTX 07 can be used on smooth as well as on porous absorptive surfaces made of building materials such as: sand-lime bricks, fibre cement boards, ordinary bricks, clinker, plaster, concrete, natural stone e.g. sandstone, granite, travertine, most paint coatings, also for sculptures, monuments, wood and for thermal insulating systems. It is intended for use on non-absorptive surfaces such as ceramics, some plastics, laminates, polyester and steel. Due to a large variety of protected substrates, it is recommended to carry out initial testing before application to check reaction of the agent with the surface, adhesiveness and the change in substrate colouring.

**Substrate:**

The substrate must be dry and cleaned of all atmospheric impurities, dirt, cement wash, hazardous substances, oils and fats, graffiti as well as biological and organic efflorescence. Non-absorptive surfaces e.g. plastics, powdered paints must be degreased, and if adhesiveness of the surface is lower, application of a primer for plastics is recommended. Residues of cleaning agents after application may have an adverse influence on KTX 07 effectiveness; therefore they have to be removed entirely. The parts of elevation, which should not be come into contact with the protecting agent should be covered with e.g. building foil. Surface temperature minimum 3°C above the dew point. Relative air humidity cannot exceed 90%.

**Compatibility with other painting systems:**

KTX 07 coating is compatible with most primers, hydrophobic coatings and surface paints including polyurethane paints, epoxy paints, 2K acrylic or polyurethane systems, anti-corrosion coatings, solvents, phthalic enamels and paints, alkyd paints, oil paints, chlorinated rubber paints, nitrocellulose paints, acrylate polymer dispersion-based paints, polyvinyl, silicone and silicate dispersion based paints.

A confirmed compatibility has been asserted with regard to anti-corrosion paints for concrete:

- Sika: Sikagard 550 W Elastic, Sikagard 680 S,
- Sto: StoCryl V 100, V 200, V 400, V 450, V 500, EF, RB,
- Hufgard: EuroCret Color Flex, EuroCret Color,
- Megachemie: MEGApotect AR 100 E, MEGApotect AR 100 S,
- Gemiprem: Prem PE, Prem PS,
- Baumit Siliconcolor.

**Directions for use:**

After opening the container stir all of the agent well for 1 minute with a slow running mixer and it can be applied. Stirring is especially important in the case of "matte" coating option due to the added matte factor, which has to be well mixed in the entire volume of the package. The container should be closed after pouring adequate amount of the agent (in an opened one the coating will cure). Unused material should be poured into clean, smaller containers, which will be entirely filled with coating. Possible access of air will have a slow curing effect and subsequent crosslinking. In the case of prolonged application, the coating must be mixed repeatedly every 60 minutes. Depending on the weather conditions the average time of application is 2 hours at temperature of 20°C, when the coating is poured into a container/tray; but in less favourable conditions this time may extend even to 6 hours.

KTX 07 matte coating application: -5 to + 30°C

KTX 07 glossy coating application: +10 to + 30°C

PX 07 primer application: +5 to + 30°C

It is crucial that temperatures remain within the same range throughout the drying period. The coating should be applied precisely in order to cover all irregularities and cracks within the structure of the material; failure to do so may cause problems while removing graffiti. The agent is applied in one or two layers.

It is recommended to use PX 07 primer filler in two layers on very absorptive materials. It allows reducing the wear of coating and prevents or minimizes the darkening effect of protected surface. The time between the primer application and the first layer of anti-graffiti coating should be 24 hours. After about 4 hours at drying temperature of 20°C external curing of the anti-graffiti coating occurs and application of another layer is possible. The full dryness of the coating is obtained after 7 hours at temperature of +20°C. There are no time limits in application of the second layer or filling the coating. Protected surface should be rinsed with water to remove dust and other impurities, in the case of longer break between applications of the two layers. Seven days' break should be made for "seasoning" the paint, if the coating is applied to the newly painted surface. In case of poor adhesion of coating to the surface it is necessary to use a primer appropriate for the individual substrate type.

It should be noted that not too much coating should be put on smooth surfaces. In the case streaks occur they should be distributed on the surface by means of a roller before they dry. The agent can be applied with an airless spraying nozzle 12-17 and also by using rollers for solvent-based paints. It can be used in ventilated rooms.

**Graffiti removal:**

Graffiti removal from protected surfaces:

From smooth surface: Sprinkle graffiti with water and by means of moist cloth or sponge remove the graffiti.

Addition of delicate washing preparation in form of liquid soap or dishwashing liquid speeds up the process of graffiti paints removal.

**From porous surface:**

- with a brush with soft hair with addition of water and washing preparation in form of liquid soap or dishwashing liquid.
- graffiti removal from larger surfaces can be carried out with a high pressure cleaner with cold water jet under pressure of up to 80 bar.
- the most recommended method is the application of a high pressure cleaner with water at maximum temp. 50°C and pressure up to 60 bar.

After graffiti removal there is no need for another coating, because only the graffiti has been removed and the protection layer is left intact.

The coating may be damaged if the used pressure is above 100 bar or a turbo system is applied – rotating nozzle, narrow nozzle jet or lance washing end is too close to the cleaned surface. Intensive scrubbing of coating may damage the protective layer. Strong removers based on solvents should not be used, because they may damage the coating or reduce the number of cycles of graffiti washing.

**Removal of posters and glues:**

Posters, tapes, stickers fall off on their own under the impact of wind and rain or they can be removed by hand. Residues of glue remaining on the protected substrate and posters which are glued with special adhesives can be removed by means of high pressure cleaners with water jet at temperature to 50°C and pressure to 60 bar.

**Consumption:**

The basic principle is to apply 2 layers.

**Theoretical coverage:** **6 m<sup>2</sup>/1 L** (167 ml/m<sup>2</sup>) to **10 m<sup>2</sup>/1 L** (100 ml/m<sup>2</sup>)

Theoretical coverage is an approximate value setting the extreme consumption figures, which differ depending on the type of the protected substrate.

**Little-absorptive non-porous surfaces:**

**7 m<sup>2</sup>/1 L** (143 ml/m<sup>2</sup>) to **9 m<sup>2</sup>/1 L** (111 ml/m<sup>2</sup>), two layers, e.g. brick, elevation paints.

**Very absorptive, little-porous surfaces:**

**6 m<sup>2</sup>/1 L** (167 ml/m<sup>2</sup>), two layers, e.g. sandstone, limestone, concrete.

**Non-absorptive smooth surfaces:**

Up to **10 m<sup>2</sup>/1 L** (100 ml/m<sup>2</sup>), one to two layers, e.g. steel, ceramics, granite, surfaces painted with powdered paints.

**Practical coverage** – depends on individual cases and applications, including the conditions during application, method of application, shape and roughness of the surface as well as base absorptiveness and losses during application.

**In order to increase the coverage on absorptive surfaces it is recommended to use the PX 07 primer** 8,3 m<sup>2</sup>/1 L (120 ml/m<sup>2</sup>), (two layers)

**Packaging:**

Metal: 5 L, 10 L, 20 L. Plastic: 1 L, 5L, 10L, 20L, (160 L at special request)

**Storage:**

In temperatures from + 5 to + 25°C. Don't expose to sunlight.

**Durability:**

12 months in closed original packaging.

**Tools cleaning:**

Before use, painting sprayers must be dried including the tubes, to avoid curing of the coating in contact with moisture. Kerosene can be used for cleaning spraying machines before and after work. Usually, rollers and brushes are suited neither for cleaning nor further use.

**Hazards and safety instructions:**

Pay attention to environment and follow the rules for working with chemicals. The product must be kept out of reach of children. Wear protective gloves, glasses and clothing during operation. Use individual respiratory protection equipment. The gloves should be made of butylene rubber. Prolonged contact with the product may cause skin dryness.

**Marking:**

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

**Further information:**

Information regarding safety during transportation, storage, use and disposal as well as environmental protection are included in the Safety Data Sheet. The above information has been compiled in our production department according to our latest technological developments and application techniques. As the types and methods of application are beyond our supervision, no liability of the producer can be derived from the contents of this information sheet. Considering various circumstances appearing in product application, the user should not depart from testing and should follow the regulations in force at his/her own responsibility.

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The present edition of Technical Data Sheet renders older editions invalid.