





Permanent Coating Facilitating Graffiti Removal

Preparation Description:

KTX 30 is an isomorphic, single-component, translucently drying coating, which constitutes permanent protection against graffiti paints with anti-poster effect. The cured film is entirely transparent and it does not distort nor damage the visual effect of coated substrates. The preparation dries fast, and features very good adhesiveness and durability. Treated surfaces are ideally protected against aerosol graffiti paints and most commercially available markers, dirt, acid rain, alkalis, oil. It hinders permanent sticking of posters, stickers, and adhesive tapes.

On its application, KTX 30 constitutes a release liner that prevents substrate penetration and its anti-adhesive properties reduces adhesiveness, often spurring the so-called 'beading' effect in liquid substances/pigments. Surfaces protected with KTX 30, owing to its anti-static properties, remain clean for a long time, which positively limits the costs of cleaning and maintenance, and thus extending service intervals for such surfaces. Protected glass pane claddings exposed to atmospheric conditions facilitate rainwater and snow run-off, thus improving visibility in adverse conditions.

KTX 30 features preservative properties and UV filters, owing to which it preserves the colour of protected substrates, and in the case of old, damaged, dull and oxidized surfaces the coating restores their natural look. The preparation is available in two variants:

KTX 30, time to make corrections: approx. 5 minutes.

KTX 30 long, time to make corrections: approx. 20 minutes.

KTX 30 anti-graffiti coating features:

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Technical Data:

Solid content: $5 \div 30\%$

Density at 20°C: 0.80 g/cm³. (PN-EN ISO 12185:2002) Flash-point: >23°C. (PN-EN ISO 2719:2016-08)

Thermal stability: up to 260°C.

Physical state: liquid.

Appearance: transparent, clear.

Odour: ammonia.

Technical Data After Application:

Appearance on surface: transparent coating with gloss.

Coating durability: at least 10 years. Graffiti removal: up to 50 cycles. Dry coating thickness: approx. 2–5 µm. Full anti-graffiti protection: after 24 hours. Full curing: after 7 days. The preparation also features anti-corrosive, water-repelling, anti-adhesive and anti-poster properties with high durability and resistance to adverse external factors: thermal, biological or chemical, UV radiation, alkali, corrosion, salt and ammonia solutions, and the majority of solvents. KTX 30 is a durable system facilitating multiple removals of graffiti paints, without the need for coating restoration after graffiti removal.









Areas of Application:

KTX 30 is suitable for use on smooth, non-absorptive substrates, for example: varnish coatings, powder paint coatings, polyurethane coatings, epoxy coatings, industrial paint coatings; plastics, e.g., polystyrene, ABS, polycarbonates, acrylic glass (plexiglass, poly(methyl methacrylate); glass, steel, zinc plated substrates, aluminium, as well as natural stone, such as polished granite. It is applicable on interior and exterior surfaces of trams, buses, train cars, as well as ticket vending machines, parking meters and lighting poles. Due to its outstanding translucency properties, it is especially recommended for protection of acoustic screens made of polycarbonates, acrylic glass and the like.

Substrate:

Due to the possibility of hindering adhesiveness, substrates must be seasoned, compact, hardened, without cracks, dry and cleaned of any atmospheric soilings, dust, dirt, oil, fats, impregnating coatings. Degrease the substrate with isopropyl alcohol. Surfaces, which should not come into contact with the protective preparation, should be covered with, e.g., construction foil, tape. Surface temperature: $+5^{\circ}\text{C} \div +30^{\circ}\text{C}$. Due to a large variety of substrates, it is recommended to carry out initial testing (by applying it on a test area) before application to check reaction of the preparation with a substrate, define adhesiveness, the change in substrate colour shade. Check of the coating—substrate adhesiveness may be executed through applying a piece of a strong adhesive tape to the coating and tearing it off.

Application Method:

After opening the container the preparation is ready for use. Before use, do not stir nor shaken the container due to a possibility of and excessive pressure build-up. After pouring the desired amount of the preparation (through a varnish strainer of approx. 125 µm) close the container to prevent impact of humidity and evaporation of the preparation. Apply small portions of the preparation at a time. Do not pour the unused preparation back to the original packaging. The preparation shall be applied in a single thin layer. If too thick a layer is applied, dried coating is susceptible to cracking.

Coating application: $+5^{\circ}C \div +30^{\circ}C$.

Optimum application temperature: +15°C ÷ +20°C.

Relative air humidity: up to 70%.

Due to the preparation's evaporation and drying rate, any corrections should be executed immediately. Anti-adhesive properties of the coating render it impossible to apply second layer.

Mean coating correction time after application on a substrate is at temperature 22°C:

KTX 30: approx. 5 minutes

KTX 30 long: approx. 20 minutes
The coating is touch dry at 22°C:

KTX 30: approx. 15 minutes

KTX 30 long: approx. 40 minutes

During this time make sure no impurities, as well as no water, come in contact with the coating. After approx. 12 hours of drying at 22°C the coating is cured to form the so-called resistance to weather conditions. Initial anti-graffiti protection properties the coating features after 24 hours; full mechanical, chemical, and anti-graffiti properties are obtained after 7 days at 20°C - during this period, the coating should not be forcibly wiped/scrubbed.









The proper temperature range must be maintained throughout the coating curing time; avoid direct sunlight and humidity. Humidity accelerates cross-linking of the coating and affects its quality and tightness. When the anti-graffiti coating is cured, it is impossible to permanently apply another layer of the preparation. The coating should be applied precisely, so that the treated surface is entirely covered with a film of liquid and a homogeneous layer is created.

Failure to do apply the preparation precisely may limit the effectiveness of the anti-graffiti protection. Make sure that no excessive coating should be applied; mean spread rate (coverage) is approx. 12 ml/m² and it should not be excessively exceeded. If the anti-graffiti coating is applied on newly paint coated substrates, maintain sufficient break time for curing of the paint coating, following Technical Data Sheet of a paint coating system. The coating may be applied outdoors and indoors with proper ventilation. Pay special attention to potential sources of fire. Wind spreads vapours over significant

Application means:

distances.

Spraying: the product is applied by means of a pneumatic low pressure (HVLP) spray gun with a $0.7 \div 1.3$ mm nozzle, under the pressure of $2 \div 3$ bar.

Manual: microfibre cloth, varnish rollers, window-glass washing pads or lint-free, absorptive fabrics. Another way is to wrap the rubber part of a squeegee or the fabric part of a washing pad with a microfibre cloth.

Select suitable application equipment to the size and shape of the treated surface. Apply the coating directly onto a microfibre cloth, and not onto the treated substrate. Replace microfibre when it is dirty. Use the preparation as concentrate. Do not mix it with any other liquids.

Graffiti Removal:

Graffiti may be removed with solvent removers, e.g., KT 33, and ecological, water anti-graffiti preparations. Apply a graffiti remover with a sprayer or a sponge, avoid curtaining beyond the cleaned surface. Wait between a few seconds and a few minutes until after application of the preparation. Wait for the paint coating to dissolve and chafe the preparation in circular movements with an absorptive cloth or a sponge. When the paint has been removed, rinse the area with water. Following graffiti removal there is no need for application of new coating because it is only the graffiti that has been removed and the protection layer is left intact. The number of removal cycles depends on the type of the graffiti and the removal method.

Removal of Posters and Adhesives:

In some cases, applied posters, tapes, stickers fall off on their own under the impact of wind and rain or they can be removed by tearing them off manually. Adhesive residues remaining on the protected substrate and posters can be removed by hand or with a water jet high pressure cleaner at up to 40°C under the and pressure of up to 70 bar.

Coating Washing:

The coating can be washed manually or with a water jet high pressure cleaner with pressure of up to 70 bar, and with commercially available washing preparations. Avoid strong acids and alkalis.









Consumption:

The basic principle is to apply 1 layer of full/tight coating.

The coating thickness of approx. 2 µm or more provides for sufficient protection.

The preparation is extremely economical in use.

<u>Theoretical spread rate (coverage)</u>: **66 m²/L** (15 ml/m²) up to **111 m²/L** (9 ml/m²) Theoretical spread rate (coverage) is an approximate value defining the extreme consumption figures, which differ depending on the type of the protected substrate. <u>Practical spread rate (coverage)</u>: depends on conditions during application, methods of application and preparation application losses.

Packaging:

Aluminium: 100 ml, 0.5 L, 1 L, 5 L.

Storage:

In temperatures of $+5^{\circ}C \div +15^{\circ}C$ in a shaded location.

Do not expose to packaging sunlight due to the possibility of a spontaneous explosion under the impact of high temperature.

Shelf life:

12 months in a closed, original packaging.

Tools Cleaning:

Before use, a paint sprayer and its tubing must be dried, for the coating is sensitive to moisture. For example, butyl acetate may be used for cleaning spraying equipment before and after work. Microfibre clothes are not suitable to be reused.

Hazards and Safety Instructions:

Pay attention to immediate surrounding and follow the rules for working with chemicals. Keep the preparation away from children. Wear protective gloves, goggles and clothing during operation. Use individual respiratory protection equipment with A2B2E2K2Hg/P3 filter. Gloves should be made of butyl or nitrile rubber.

Marking:



DANGER

ADR/RID: UN 2920, Class 8 (3), II.

Further information:

Information regarding safety during transportation, storage, use and disposal as well as environmental protection is included in the product's Safety Data Sheet.

The above information has been compiled in our production department according to our









latest technological developments and application techniques. For the types and methods of application are beyond our supervision, no liability of the producer shall be derived from the contents of this information sheet.

Considering various circumstances and factors conditioning product application, users should not refrain from testing and should follow the regulations in force at one's own responsibility.

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Publication of this edition of Technical Data Sheet renders previous editions invalid.

