

Technical Data Sheet

Technisches Datenblatt

TPdur matt HD

Permanent, transparent Anti-Graffiti-, Easy-to-Clean Coating

PROPERTIES/PRODUCT DESCRIPTION

- Permanent clear coating
- Excellent protection against graffiti
- Easy-to-Clean
- Excellent adhesion to most substrates
- High UV and chemical resistance
- Economical
- Easy to apply
- Cures at room temperature
- Fluorine-free

TPdur matt HD is a clear, ready-to-use coating solution that protects non-absorbent surfaces against graffiti and dirt. Based on a patented polysilazane technology, **TPdur matt HD** forms a permanent barrier layer that bonds chemically with the substrate and cures at room temperature with atmospheric humidity. The surface protected with **TPdur matt HD** can be cleaned repeatedly without reapplying the product.

USE

TPdur matt HD is particularly suitable for smooth, non-absorbent surfaces, such as one- or two-component paints (polyurethane or epoxy systems), polyester paints, GRP surfaces, aluminium and stainless steel surfaces.

The preferred use is for the interior of commuter and intercity trains, trams and underground trains.

PRODUCT APPLICATION/TOOLS

TPdur matt HD is supplied ready-to-use.

Depending on the substrate **TPdur matt HD** can be applied with microfiber applicators or paint rollers (microfiber-flocking).

The product is also suitable for spray application.

Spray application:

<i>Process:</i>	HVLP-compressed air
<i>Spray gun:</i>	e.g. SATA minijet HVLP
<i>Working pressure:</i>	ca. 2 – 3 bar
<i>Nozzles:</i>	0.8 – 1.3 mm

The spray gun can be cleaned with n-butyl acetate, for example.

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TECHNICAL DATA

<i>Article Number:</i>	214053
<i>Appearance:</i>	colorless to pale yellow liquid
<i>Density:</i>	ca. 0.97 g/cm ³
<i>Solid content:</i>	60 – 90 %
<i>Binder base:</i>	organic polysilazane
<i>Solvent base:</i>	n-butyl acetate
<i>Flash point:</i>	< 21 °C
<i>Shelf life:</i>	12 months from production date, at 20 °C
<i>Container size:</i>	6 liter alu bottle containing 5 liters

APPLICATION INSTRUCTIONS

The product should be applied by trained personnel only.

Test on a small area or apply a test coat before application.

CONDITION OF SUBSTRATE

The substrate to be coated must be clean, grease-free and absolutely dry. Areas which are difficult to reach, such as cavities or drainage channels etc. must be dried additionally with absorbent cloths or blown dry with compressed air. On contact with a damp substrate surface, **TPdur matt HD** reacts prematurely and cannot form a permanent seal. The substrate temperature must be between + 5 °C and +30 °C, the relative humidity at 30 % - 80 %.

APPLICATION

TPdur matt HD must be applied at an ambient temperature of at least + 5°C and a relative humidity of 30 % - 80 %. Avoid direct sunlight! Apply the coating in dry conditions and never in rain.

The coating is applied with an applicator. Any mistakes can be rectified within approx. 10 min of application. After this the repellent effect of **TPdur matt HD** makes it impossible to apply another coat.

The average coverage is ca 15 ml/m² and this should not be significantly exceeded.

During application, only small quantities should be decanted from the original container into the application container. Residues of unused **TPdur matt HD** should not be returned from the application container to the original container. Traces of water in the applicator should also be avoided. Applicators dampened with water should not be used.

If dirt appears on the applicators during coating, they should be replaced with clean applicators to avoid dirt entering the **TPdur** coating. The applicators cannot be reused once the coating has been applied. If the solution in the application container solidifies or a deposit forms, it can no longer be used. Solutions that are no longer useable must be disposed of properly.

TPdur matt HD is dry-to-touch after about one hour.

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The recommended curing conditions (until water resistant) are:

- Room temperature: 8 – 12 hours
- 80 °C: two hours
- 130 °C – 180 °C: one hour

The **TPdur** coating is fully effective after 5 – 7 days' curing at room temperature.

On metal surfaces such as aluminum, steel and stainless steel, curing at > 80°C is recommended to achieve optimum adhesion to the substrate.

SAFETY INSTRUCTIONS

The instructions on the accompanying Safety Data Sheet must always be followed.

CLEANING AND GRAFFITI REMOVAL

Surfaces coated with **TPdur matt HD** should be cleaned with cleaners in the pH range 3 – 12. Strong (mineral) acids or alkalis should be avoided and are also unnecessary as neutral cleaners are generally sufficient to clean vehicles coated with **TPdur matt HD**.

Graffiti should always be removed from the coated surfaces as soon as possible. Conventional graffiti removers can be used.

TECHNICAL SERVICE

Our Application Department is available to answer technical questions on performance, use and chemical specifications.

We provide information and advice on application technologies and relevant regulations based upon our current knowledge and opinion. WE MAKE NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, WITH RESPECT TO SUCH INFORMATION OR ITS APPLICATION. Customers must independently determine the suitability of our products for the customer's intended product, use or process. Customer is responsible for observing all laws and regulations relevant to such products, uses or processes. The foregoing information and suggestions are also provided without warranty of non-infringement as to intellectual property rights of third parties and shall not be construed as any inducement to infringe the rights of third parties. Customer shall be responsible for obtaining any applicable third party intellectual property licenses. Any reference from our literature requires prior written consent and in any reference the source shall be stated.

durXtreme GmbH
Nicolaus-Otto-Str. 39
89079 Ulm
Germany
Mail: info@durxtreme.com