VETRO POWER

Technical Data Sheet (TDS)

Vetro Power Nano-Dynamis Anti-Corrosion Protection

Transparent Anti-Graffiti-, Easy-to-Clean- and Anti-Corrosion Coating

PROPERTIES/PRODUCT DESCRIPTION

- Permanent clear coating
- Excellent protection against graffiti
- Exceptional corrosion protection
- Easy-to-Clean
- Excellent adhesion to most substrates
- High UV and chemical resistance
- Economical
- Easy to apply
- Cures at room temperature
- Fluorine-free
- Heat resistant up to 300°C

Vetro Power Nano-Dynamis Anti-Corrosion Protection is a clear, ready-to-use coating that protects non-absorbent surfaces against graffiti, dirt, weathering and corrosion. Based on a patented polysilazane technology, **Vetro Power Nano-Dynamis Anti-Corrosion Protection** forms a permanent barrier layer that bonds chemically with the substrate and cures at room temperature with atmospheric humidity. The surface protected with **Vetro Power Nano-Dynamis Anti-Corrosion Protection** can be cleaned repeatedly without reapplying the product.

USE

Vetro Power Nano-Dynamis Anti-Corrosion Protection is particularly suitable for smooth, non-absorbent surfaces, such as one- or two component paints (polyurethane or epoxy systems), polyester paints, GRP surfaces, but furthermore particularly for metal surfaces like aluminium, zinc, stainless steel, copper und several alloys (e.g. brass and bronze).

Typical applications for **Vetro Power Nano-Dynamis Anti-Corrosion Protection** are surfaces like

- Aluminium rims
- Tank equipment and industrial plants (inside and outside)
- Traffic signs
- Ventilating systems
- Marble and granite (polished)
- Firearm barrels

PRODUCT APPLICATION/TOOLS

Vetro Power Nano-Dynamis Anti-Corrosion Protection is supplied ready-to-use. Depending on the substrate **Vetro Power Nano-Dynamis Anti-Corrosion Protection** can be applied with microfiber applicators or paint rollers (microfiber-flocking). The product is also suitable for spray application.

Spray application:

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

Warning Advice: We recommend wearing suitable protective clothing. In case of contact with skin, immediately rinse o with water. Do not swallow. Avoid contact with eyes. In case of contact with the eye or mucosa, immediately rinse o with water. In the event of symptoms occurring, seek medical treatment. Keep out of reach of children!

General advice: Do not inhale atomised spray and the liquid product.

Zyax Chem Pvt. Ltd. is not liable for damages to the product, as a result of dirt entering the bottles and canisters, e.g. after opening the containers. Zyax Chem Pvt. Ltd. is also not liable for improper application of the product if the surfaces have been recoated for any reasons, without Zyax Chem Pvt. Ltd.'s prior written agreement, nor for any damage to or deterioration of the coating system arising from causes beyond the control of Zyax Chem Pvt. Ltd., including but not limited to impact, abrasion, mechanical damage, neglect, malicious damage, fire damage, pollution and abnormal weather conditions, neither for failure associated with exposure of the coatings to abrasive, chemical substances, abrasive scouring, hydrofluoric acid and highly alkaline chemicals such as bleach, potassium hydroxide and sodium hydroxide and/or if the coated surfaces have not been maintained in accordance with the supplier's recommended maintenance procedures. All information is based on today's state-of-the-art technology. As to the above-mentioned information, we do not lay a claim to completeness, these are only to be understood as possible examples for application areas. Due to a large number of surfaces and object conditions, the buyer/user is not relieved of the duty to professionally verify, in his own responsibility, that our materials are suitable for the intended purpose according to the respective object conditions. In all other respects, our general conditions of sale apply. If the new product information is issued

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

TECHNICAL DATA

Article Number	5860
Appearance:	colorless to pale yellow liquid
Density:	ca. 0.92 g/cm3
Binder base:	organic polysilane
Solvent base:	n-butyl acetate
Flash point:	< 21 °C
Shelf life:	12 months from delivery date, at 20 °C
Container size:	1 liter aluminium bottle,

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, **Vetro Power Nano-Dynamis Anti-Corrosion Protection** 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

Vetro Power Nano-Dynamis Anti-Corrosion Protection 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 **Vetro Power Nano-Dynamis Anti-Corrosion Protection** 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 **Vetro Power Nano-Dynamis Anti-Corrosion Protection** 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 **Vetro Power Nano-Dynamis Anti-Corrosion Protection** coating.

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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. **Vetro Power Nano-Dynamis Anti-Corrosion Protection** is dry-to-touch after about one hour. For larger areas/plain metal surfaces/corrosion protection we strongly recommend to applicate under clean room conditions!

The recommended curing conditions (until water resistant) are:
- Room temperature: 8–12 hours
- 80 °C: two hours
- 130 °C – 180 °C: one hour

The **Vetro Power Nano-Dynamis Anti-Corrosion Protection** 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

SAFETY INSTRUCTIONS

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

CLEANING AND GRAFFITI REMOVAL

Surfaces coated with **Vetro Power Nano-Dynamis Anti-Corrosion Protection** should be cleaned with a cleaner 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 **Vetro Power Nano-Dynamis Anti-Corrosion Protection**. Graffiti should always be removed from the coated surfaces as soon as possible.

TECHNICAL SERVICE

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

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