VETRO POWER
ADVANCED MATERIAL CARE

Technical Data Sheet (TDS)

PROTECTIVE NANO COATING FOR PLASTIC

Vetro Power Plastic Protect: Hydrophobic and Oleophobic Surface Protection for Plastic

This nano surface protection system has been specially developed for the protection of plastic surfaces in industry and trade. Through the surface protection of Vetro Power Plastic Protect, the surfaces receive hydrophobic, oleophobic and soil-repellent features. Grease and substances resulting from environmental pollution do not fully adhere to the surface and can therefore be easily removed from the protected surface.

APPLICATION AREA

Protection of plastic surfaces in industry and trade.

COMPOSITION

SiO2 dissolved in ethanol. Highly flammable (please see the corresponding material safety data sheet).

PHYSICAL CHARACTERISTICS

Property	Value
Physical state	Liquid
Colour	Colourless
Odour	Alcoholic
Density	approx. 0.8 g/ml
Flash point	12 °C (ethanol)
Solubility	Miscible with water
Storage temperature	-5 °C to +30 °C
Shelf life	At least 2 years in the unopened original container. Once opened, use within 6 months.

FEATURES

- Hydro- and oleophobic
- Soil-repellent
- No change in look and feel
- Food-safe
- Reduced stress corrosion
- Biocompatible
- Physiologically harmless
- Ecologically sound
- UV-stable
- Resistant to high-pressure cleaners and steam cleaners up to 60 bar (depending on substrate)
- Temperature resistance: up to 450 °C (peak temperature)

APPLICATION METHOD

Vetro Power Plastic Protect is a ready-to-use solution that must not be diluted. A prerequisite for an optimal result is the pre-cleaning of the surface to be protected. The surface must be dry and absolutely free of soil, grease, dust and residues of cleaning agents. The recommended application techniques are as follows:

1. Spraying: Spray the surface using HVLP nozzles, followed by wiping the surface with a lint-free cloth that has been previously moistened with the product.

2. Wiping: Wipe the product on using a soft and lint-free cloth and polish the surface afterwards.

3. Dipping or brushing.

For all surfaces, we recommend processing an examination for stability and functionality in an inconspicuous area.

HARDENING TIME

As soon as the solvent (carrier liquid ethanol) is evaporated, the protected plastic surface can be stored, transported, entered and processed. The complete hardening is obtained at a 24-hour drying period at ambient temperature (20 °C / rH 65%), but the hardening process can be accelerated by additional warmth.

COVERAGE

800 to 1,000 sq ft per litre.

CLEANING AND CARE

Through treatment with Vetro Power Plastic Protect, the surface has a smooth and stable protection that is resistant to conventional cleaning agents. Contamination can be solved with water. In case of stronger contamination, this can be solved with water and a mild cleaner with a pH of 5 to 7. The durability of the surface protection strongly depends on the kind and frequency of cleaning and care. Only cleaning agents that are suitable for the surface are to be used.

NOTE

Highly flammable liquid and vapour. Due to the raw material used, different visual colour changes can happen. This can appear occasionally batch-related and does not constitute a reason for a complaint about the respective product.

Warning Advice: We recommend wearing suitable protective clothing. In case of contact with skin, immediately rinse off with water. Do not swallow. Avoid contact with eyes. In case of contact with the eye or mucosa, immediately rinse off 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 the validity of the old version expires.

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