

Vetro Power Nano Electro Protect

Transparent and Easy-To-Clean Electronic Protection.

PROPERTIES

- Increased lifespan: Protection from moisture and other harmful environmental influences.
- Energy efficiency: Reduced energy consumption and operational costs.
- Environmental friendliness: Meets strict environmental standards.
- Flexibility and adaptability: Broad applicability in various electronic applications & environments.

PRODUCT DESCRIPTION

Vetro Power Nano Electro Protect is a breakthrough in coating technology, enabling the creation of ultra-thin, durable layers (5–50 nanometres thick). These fine layers provide high resistance with minimal surface impact. It offers a cost-efficient, high-performance coating solution for various industrial applications, enhancing product reliability and durability.

PHYSICAL CHARACTERISTICS:

Article Number	5860
Density:	approx. 0,8 g/cm ³
Viscosity: :	approx. 1,2 mPas
Flash Point:	> 12 °C
Boiling point:	approx. 78 °C

APPLICATION METHODS:

- LP-CVD (Liquid Phase Chemical Vapour Deposition): Suitable for homogeneous and precise coatings.
- Spin-coating: Optimal for flat surfaces, frequently used in microelectronics and semiconductor manufacturing.
- Dip coating: Ideal for components with complex geometries.
- Spray coating: Effective for complex shapes and large surfaces.

APPLICATION NOTES:

Preparation:

- Cleaning: Remove contaminants such as grease, oil, dust, and production residues through ultrasonic cleaning, chemical cleaning, or high-pressure air.
- Drying: Careful drying of components to remove moisture residues.
- Inspection: Check the cleaned PCBs for cleanliness and integrity before the coating process.
- Environmental conditions: Apply the coating in a controlled environment to minimize dust, moisture, and temperature fluctuations.
- Handling: Careful handling of components to avoid new contaminants and mechanical damage.

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 LLP 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 LLP is also not liable for improper application of the product if the surfaces have been recoated for any reasons, without Zyax Chem LLP's prior written agreement, nor for any damage to or deterioration of the coating system arising from causes beyond the control of Zyax Chem LLP, 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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Application:

- Proceed application according the selected application method.

Test area:

Before finishing a component or other substrate, a test area should be prepared. This test area must be checked according to proper preparation and cleaning and subsequent application of the product to ensure that the requirements are met and no negative consequences are caused by the product. This is to maintain the highest level of diligence and to verify that no negative aspects such as colour change or corrosion of the surfaces are caused.

Electrical safety:

Before application, it must be ensured that there is no electrical voltage on the parts being treated or sprayed to prevent short circuits.

SHELF LIFE:

The shelf life in the unopened original container is at least 2 years. The opened container should be used within 6 months.

NOTE:

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 complaint of the respective product

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