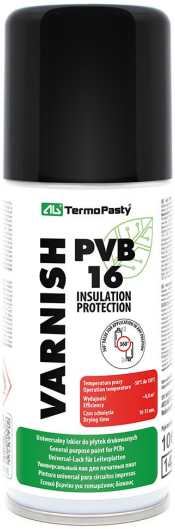
PVB 16

Protective insulating varnish for PCBs
AG TermoPasty · 100 ml aerosol · ART.AGT-232



Extremely flammable aerosol. Causes serious eye damage. Read the safety instructions in Chapter 3 before use.

www.rotorama.com

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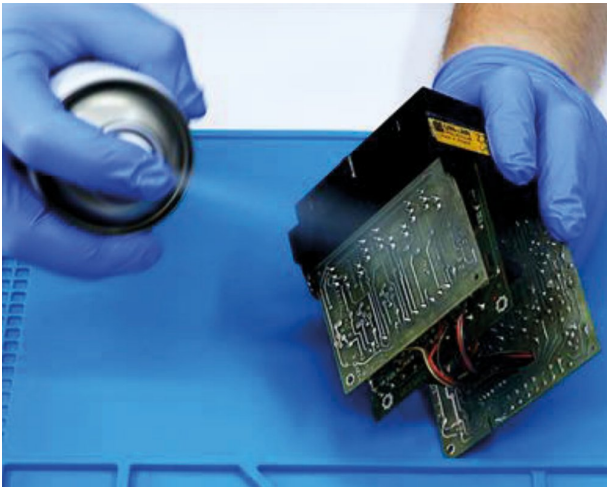
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1. Product description

1.1 Intended use

PVB 16 Varnish by AG TermoPasty is a fast-drying insulating varnish in an aerosol can. It forms a thin, colourless and transparent protective coating on printed circuit boards and electronic components that protects against moisture, oxidation, dust and chemical contaminants, resists diluted acids and atmospheric agents, and limits stray currents and short circuits.

In FPV equipment it is used mainly to protect flight controllers (FC), electronic speed controllers (ESC), video transmitters (VTX), receivers and other electronics against moisture, condensation and dirt. The coating dries in 10–15 minutes and it is possible to solder through the varnish layer. The varnish protects against moisture and splashes, but it **is not a substitute for waterproof encapsulation** of the device.



Applying the varnish to a printed circuit board (illustrative photo by the manufacturer)

1.2 Technical data and package contents

Product designation	PVB 16 Varnish (Lakier PVB 16), 100 ml aerosol
Manufacturer code / EAN	ART.AGT-232 / 5901764325253
UFI	WC00-Y0QU-6002-F0KJ
Packaging	aerosol can, metal container, 360° valve (application in any position)
Coating	colourless, transparent
Drying time	10–15 min

Coverage	approx. 0.8 m²
Operating temperature of the coating	−50 °C to 150 °C
Application temperature	−40 °C to 60 °C
Volume resistivity	> 1.0 × 10^{14} Ω·m
Surface resistivity	> 1.1 × 10^{14} Ω
Dielectric strength	> 89 kV/mm
Tested according to	IPC-CC-830B, IPC-TM-650, PN-88/E-04405, PN-EN 60243-1, PN-EN 60243-2
Shelf life	3 years
Manufacturer	AG TermoPasty Grzegorz Gąsowski, Kolejowa 33 E, 18-218 Sokoły, Poland, info@termopasty.pl, www.termopasty.com

Package contents: 1× PVB 16 Varnish aerosol, 100 ml.

Not included: protective gloves and goggles, masking tape or caps, cleaning and degreasing agent.

2. Use

Extremely flammable aerosol. Work outdoors or in a well-ventilated area, away from open flames, sparks and hot surfaces (including a switched-on soldering iron). Wear protective goggles and gloves.

2.1 Preparation

- Disconnect the power supply from the electronics – on a drone, remove the battery and disconnect the USB cable.
- Thoroughly clean and degrease the PCB surface. It must be **completely dry** before application.
- Cover (mask) all areas that require direct electrical or mechanical contact: connectors and sockets, button and switch contacts, service and programming connectors, trimmers, memory card slots and surfaces intended for subsequent bonding or mechanical assembly.

On FPV electronics, also cover in particular the USB connector, antenna connectors (u.FL, MMCX, SMA), camera and peripheral connectors, buttons (e.g. bind / boot), the camera lens and the barometer opening. Use suitable masking tape or caps.

2.2 Application

① Spray the varnish from an appropriate distance using smooth, continuous motions.

② Apply a **thin, even layer** to the components you want to protect. A thick layer applied at once takes longer to dry.

③ Thanks to the 360° valve, the aerosol can be used in any position, including hard-to-reach areas.

④ If a higher level of protection is required, apply another coat after the first one has dried.

2.3 Drying and putting into operation

- The varnish dries in 10–15 minutes.
- With thicker layers or in a humid environment, allow additional drying time so that the coating cures fully.
- After drying, remove the masking tape and caps.
- Power on the electronics only when the coating is **completely dry** and the solvent vapours have dispersed.

2.4 Soldering and repairs

It is possible to solder through the varnish layer, so repairs and component replacement can be carried out without removing the coating. Solder only after the varnish has dried completely and in a well-ventilated area. Once it has cooled down, the repaired spot can be sprayed again.

2.5 Limitations of use

- The varnish protects against moisture and splashes, but it **does not provide complete encapsulation or waterproofing** of the device. Neither a coated drone nor its electronics are waterproof.
- The varnish is not intended for applications involving continuous immersion in cooling, transformer or dielectric oils.
- Do not use the product for any purpose other than protecting printed circuit boards and electronics.

3. Safety instructions

3.1 Hazard labelling

The mixture is classified as hazardous under Regulation (EC) No 1272/2008 (CLP). Hazardous substances: acetone, butan-1-ol.



Hazard pictograms GHS02, GHS05 and GHS07

Signal word: DANGER

Code	Hazard statement
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.

Code	Precautionary statement
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351 +P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

3.2 Safe handling

- The manufacturer states that the product is intended for **professional users**. Read the safety data sheet carefully before use; it is available on the product page at www.rotorama.com.
- Use only outdoors or in a well-ventilated area. Do not inhale gases and vapours.
- Do not use near open flames or other ignition sources. No smoking. Antistatic clothing and footwear are recommended.

- Avoid contact with skin and eyes. Wear protective goggles or a face shield and gloves resistant to the product.
- In poorly ventilated areas, wear a half mask with an organic vapour filter.
- Do not eat, drink or smoke while working. Wash your hands thoroughly with soap and water after work.
- Keep out of the reach of children.

3.3 First aid

If any health problems occur or in case of doubt, inform a doctor and show them the information from the safety data sheet.

- **If in eyes:** immediately rinse the eyes with running water with the eyelids held open; remove contact lenses immediately. Do not attempt neutralisation. Rinse for 10–30 minutes from the inner to the outer corner of the eye. Always seek medical treatment, even if only slightly affected.
- **If inhaled:** stop the exposure, move the affected person to fresh air and protect them from getting cold. If irritation, shortness of breath or other symptoms persist, seek medical treatment.
- **If on skin:** remove contaminated clothing and wash the affected area with plenty of water, lukewarm if possible.
- **If swallowed:** unlikely; seek medical advice if you feel unwell.

Czech Toxicological Information Centre (Klinika pracovního lékařství VFN a 1. LF UK, Na Bojišti 1, 120 00 Praha 2): phone +420 224 919 293 or +420 224 915 402. European emergency number: **112**. Outside the Czech Republic, contact the poison centre of your country.

3.4 Fire and accidental release

- **Suitable extinguishing media:** alcohol-resistant foam, carbon dioxide, powder, water spray, water mist. **Unsuitable:** full water jet.
- In a fire, carbon monoxide, carbon dioxide and other toxic gases are formed. Cool closed containers near the fire with water.
- In case of release, ensure ventilation, remove all ignition sources and prevent the product from entering soil, drains and water.

4. Storage and transport

- Store in a tightly closed container in a cool, dry and well-ventilated place, locked up and out of the reach of children.
- Protect from sunlight and do not expose to temperatures exceeding 50 °C. Protect from frost, flames, sparks and overheating – do not leave the can e.g. in a hot car.
- Keep away from strong acids, bases and oxidising agents.
- The shelf life of the product is 3 years.
- For transport purposes the aerosol is dangerous goods (UN 1950, AEROSOLS, class 2). Check the airline's rules before travelling by air.

5. Information for the EU and Czech Market

5.1 Importer and responsible person in the EU

The product is placed on the European Union market by the importer stated below, who is at the same time the responsible person within the meaning of Article 16 of Regulation (EU) 2023/988 of the European Parliament and of the Council on general product safety (GPSR).

Importer / responsible person in the EU	Rotorama, s.r.o.
Company ID (IČO)	051 57 692
VAT ID (DIČ)	CZ05157692
Registered office	Okrajová 1351, 674 01 Třebíč, Czech Republic
E-mail	info@rotorama.cz
Phone	+420 252 252 098
Website	www.rotorama.com

5.2 Disposal

- Unused product and contaminated packaging **must not be disposed of together with mixed municipal waste** and must not be poured into drains.
- Do not pierce or burn the container, even after use – an empty container may still contain residues of the flammable mixture.
- Hand over unused product and non-empty or contaminated containers as hazardous waste, e.g. at a collection yard or a hazardous waste collection point in your municipality.
- Completely emptied and cleaned containers can be recycled according to the waste sorting rules of your municipality.
- In the Czech Republic, waste management is governed by Act No. 541/2020 Coll., on waste. Outside the Czech Republic, follow the regulations of the country in which you use the product.

6. Warranty and rights arising from defective performance

The rights and obligations of the contracting parties are governed by Czech law, in particular by Act No. 89/2012 Coll., the Civil Code, and Act No. 634/1992 Coll., on consumer protection.

- The seller is liable to the buyer for the product being free of defects on receipt. If the buyer is a consumer, a defect may be notified **within two years of receipt** of the product (Section 2165 of the Civil Code).
- If a defect appears within **one year** of receipt, the product is deemed to have been defective already at the time of receipt (Section 2161(5) of the Civil Code).
- When purchasing online, a consumer has the right to **withdraw from the contract within 14 days** of receiving the goods without giving a reason (Section 1829 of the Civil Code).
- Claims should be made with the retailer from whom you purchased the product. The importer's contact details are given in Chapter 5.1.
- The competent body for out-of-court settlement of consumer disputes is the **Czech Trade Inspection Authority**, Štěpánská 796/44, 110 00 Prague 1, www.coi.cz.