KOTKING 15 ml

Protective coating for RC model and FPV drone electronics

User manual



Read this manual carefully before use and keep it for future reference.

www.rotorama.com

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1. Product description

1.1 What it is for

KOTKING is a transparent protective coating (conformal coating) designed for the electronics of RC models and FPV drones – the flight controller (FC), video transmitter (VTX), camera boards and other printed circuit boards. Once dry, it forms a dry, non-sticky and flexible layer that protects components against splashing water, moisture and dirt and helps prevent short circuits.

According to the manufacturer, the coating does not prevent heat from being released from the components and can be removed easily when a board needs to be re-soldered or the USB connector needs to be accessed. It is applied directly from the tube and spread with a thin wooden stick or a small brush.



KOTKING tube and box

1.2 Technical data and package contents

Product designation	KOTKING, 15 ml, transparent
Manufacturer	KOTKING (kotking.com)
Product type	silicone-based protective coating for electronics
Volume	15 ml
Colour	transparent (clear)
Drying time	approx. 15–20 min (one side of a board)
Properties when dry	dry, non-sticky, flexible surface
Classification	The mixture is not classified as hazardous within the meaning of Regulation (EC) No 1272/2008 (CLP).
Package contents	1× KOTKING 15 ml tube; according to the product photo also a wooden stick and a rubber USB cap (accessories may vary by batch)
Not included	the electronics to be coated, cleaning aids and tools

2. Use

2.1 Before you start

- Work in a clean, dry and well-ventilated area.
- Disconnect the battery and the USB cable. Never apply the coating to equipment that is powered.
- Disassemble the drone so that you can easily reach the boards. Desoldering components **is not necessary**.
- Clean the surfaces with an air blower, brush or cloth to remove dust, grease and moisture. Apply the coating only to **dry and clean** surfaces.

▶ **Where not to apply the coating**

- into connectors or onto their contacts (USB, cable connectors, u.FL, MMCX, SMA antenna connectors, battery connector),
- onto buttons (e.g. BOOT or bind), the flight controller barometer or other sensors with an opening to the surroundings,
- onto the camera lens or onto solder pads that you will still be soldering.

※ Cover the USB connector with the cap from the package while applying the coating.

2.2 Application procedure

① Apply KOTKING to the flight controller (FC), video transmitter (VTX), camera boards and other parts – **evenly and slowly**.

② Spread the coating into a thin continuous layer with a small brush or a wooden stick. Make sure it also covers the sides of components and the joints between them.

③ Place the parts in a level position and let them dry for approximately **15–20 minutes**.

④ Only once the first side is dry, coat the other side of the board in the same way.

⑤ Before reassembling the drone, check that the coating has not run into connectors and that all coated areas are dry.

※ Always coat only one side of a board and do the other side only once the first is dry. The coating is thick – a layer that is too heavy takes considerably longer to dry.

2.3 Coating an FPV camera

On an FPV camera, apply KOTKING around the camera connector, on the camera case – especially on the seam between the case parts – and on the joint between the case and the lens focus ring. Do not apply the coating to the lens glass or inside the connector.

2.4 Removing the coating

According to the manufacturer, the coating can be removed easily, e.g. before soldering or to access the USB connector; the manufacturer does not specify a procedure. Work carefully so as not to damage small components, and re-coat the area after the repair.

3. Safety, care and storage

3.1 Safety during work

The mixture is not classified as hazardous. Nevertheless, follow the general rules for working with chemical products:

- Keep out of the reach of children. The product is not intended to be swallowed.
- Avoid contact with the eyes. In case of eye contact, rinse with clean water; if discomfort persists, seek medical advice.
- Do not eat, drink or smoke while working. Wash your hands after work.
- Work in a well-ventilated area.
- Connect the battery only after the coating has fully dried.

3.2 Limits of protection and care of coated electronics

- KOTKING protects coated components against splashing water, moisture and dirt. The protection is only as good as the application – uncoated areas, connectors and motors are not protected.
- A coated drone is not intended to be submerged in water. The coating is no substitute for caution when flying in rain, snow or over water.
- If the drone falls into water or gets wet, disconnect the battery immediately, dry the drone and let it dry out thoroughly before switching it on again.
- After a crash or repair, check that the coating is not damaged and re-coat any exposed areas.

3.3 Storage

- Always close the tube tightly after use so that the contents do not dry out.
- Store in a dry place, away from direct sunlight and heat sources and out of the reach of children.
- Keep in the original packaging so that the product is always clearly identified.

4. Information for the EU and Czech Market

4.1 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

4.2 Disposal

- The product is not electrical equipment. Dispose of product residues and the empty tube in accordance with local waste regulations; they usually belong in mixed municipal waste.
- Do not pour product residues into drains, watercourses or soil.
- Put the cardboard box into separate paper collection.
- Proper disposal helps prevent negative effects on the environment and human health.

5. 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 4.1.
- 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.

❖ The law of the country in which the product is used is decisive. The information in this manual describes the situation in the Czech Republic; in another country, follow the regulations of that country.