



KAVAN Epoxy 5min

Two-component epoxy adhesive
Double dispenser 25 ml



Read these instructions before use, especially the safety information in chapter 3. Wear protective gloves and eye protection while working.

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1. Product description

1.1 What it is for

KAVAN Epoxy 5min is a clear, very fast curing, two-component, high-strength epoxy adhesive. It is resistant to fuels, solvents and vibration, is easily sandable when fully cured and does not become brittle with age. It is supplied in a double dispenser (syringe) containing both components – resin (component A) and hardener (component B) – in a 1 : 1 ratio.

In FPV and model building it is particularly suitable for bonding carbon and repairing frames, as well as for wood, plywood, metals, fibreglass and carbon laminates and fabrics, ceramics, glass, hard plastics and polystyrene foam. With a filler added it can also be used as a filler paste.



KAVAN Epoxy 5min – double dispenser

1.2 Technical data and package contents

Product	KAVAN Epoxy 5min, two-component epoxy adhesive
Manufacturer	KAVAN Europe s.r.o., www.kavanrc.com
Product identification	code KAV56.9962.CZ, EAN 8596450061606
Package	double dispenser 25 ml (resin + hardener); label of the current version: 25 g
Mixing ratio	1 : 1 (by volume and by weight)
Colour	clear (before and after curing)
Viscosity after mixing	5000–10000 mPa·s
Working time (to gelation)	approx. 5 min (at 20 °C to 25 °C)
Half strength	after 10–15 min
Handling of bonded parts	after 15–20 min
Full strength	after 2–3 h
Full cure	16–24 h
Shear strength	20 N/mm ²
Temperature resistance of joint	–40 °C to +120 °C

Package contents: 1× double dispenser with resin and hardener. **Not included:** mixing spatula or mixing pad, protective gloves and goggles, thinner or filler.

2. Use

The hardener causes severe skin burns and serious eye damage; both components may cause an allergic skin reaction. Always wear protective gloves and eye protection and read chapter 3.

2.1 Before you start

- Work in a well-ventilated area and do not breathe vapours. Do not eat, drink or smoke while working.
- Prepare a clean disposable mixing surface (e.g. a piece of cardboard or plastic), a mixing stick and paper towels moistened with denatured alcohol for removing excess adhesive.
- The adhesive cures best at room temperature. The stated times apply to 20 °C to 25 °C; curing is slower at lower temperatures and faster at higher temperatures.
- Take care not to confuse the resin and hardener caps – even a small amount of hardener can degrade a large quantity of resin.

2.2 Preparing the surfaces

- The surfaces to be bonded must be clean, dry and free of dust and grease.
- Lightly roughen smooth surfaces (carbon, metal, laminate) with sandpaper and remove the dust – the adhesive holds better on a roughened surface.
- Dry-fit the parts first and prepare a way to hold them in place after bonding (clamps, tape, weights).

2.3 Dispensing and mixing

- ① Remove the dispenser cap.
 - ② Apply even pressure to the plunger to dispense the required amount onto the mixing surface. The dispenser delivers both components at the same time in a 1 : 1 ratio.
 - ③ Mix both components thoroughly until a uniform clear mass is formed. Mix quickly – the working time is only approx. 5 minutes.
 - ④ Wipe the dispenser nozzle and refit the cap so that the components do not come into contact with each other.
- ※ Always mix only as much adhesive as you can use within the working time. The reaction of resin and hardener releases heat; a larger quantity mixed at once (typically more than 20–30 g) therefore heats up and cures much faster. To extend the working time, the adhesive can be cooled, e.g. in a water bath.

2.4 Bonding and curing

- Apply the mixed adhesive to one or both surfaces and join the parts.

- Hold the joint in place and leave it undisturbed. Bonded parts can be handled after 15–20 minutes, the joint reaches full strength after 2–3 hours and is fully cured after 16–24 hours.
- Do not load a repaired frame or part (for example by flying) until the joint has reached full strength.
- Remove excess uncured adhesive with a cloth or paper towel moistened with denatured alcohol. Cured adhesive can only be removed mechanically (by sanding).

2.5 Suitable and unsuitable materials

Suitable	softwood and hardwood, particleboard, plywood, metals (aluminium, copper, steel, brass), concrete, glass, ceramics, porcelain, hard plastics, polystyrene foam, fibreglass and carbon laminates, fibreglass and carbon fabrics and fibres
Not suitable	soft and flexible plastics (incl. EPP and EPO), polyethylene, Teflon

2.6 Thinning and use as a filler paste

- **Thinning:** the manufacturer specifies S6300 epoxy thinner. However, thinner increases the curing time and reduces the final strength of the joint; if you need a thinner epoxy, use a laminating or finishing epoxy with a lower viscosity instead.
- **Filler paste:** suitable fillers are microballoons, talc, baby powder, diatomaceous earth, fine balsa or lime sawdust or chopped fibreglass. Adding filler may reduce the working time by up to 25 % and, depending on the type and amount of filler, may reduce the strength of the joint.

3. Safety information

The product contains substances classified as hazardous within the meaning of Regulation (EC) No 1272/2008 (CLP). The hazard information on the label of your package always takes precedence. Keep out of reach of children.



Hazard pictograms stated for the product: GHS05, GHS07, GHS09

3.1 Hazard information

Component	Hazard information
Resin (component A)	Warning. Contains: bis-[4-(2,3-epoxipropoxy)phenyl]propane. May cause an allergic skin reaction. Contains epoxy constituents. May produce an allergic reaction. UFI: NW26-UESR-0H0Y-7WX8
Hardener (component B)	Danger. Contains: 1,3-bis[3-(dimethylamino)propyl]urea, 3-aminomethyl-3,5,5-trimethylcyclohexylamine. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. UFI: KTGW-8MK5-F102-0TKH

3.2 Precautions for safe handling

- Keep out of reach of children. Store locked up.
- Do not breathe vapours. Wear protective gloves, protective clothing and eye protection.
- Dispose of residues and the container at a hazardous waste collection point (see chapter 5.2).

3.3 First aid

- **If swallowed:** rinse mouth. Do NOT induce vomiting.
- **If on skin (or hair):** take off immediately all contaminated clothing. Rinse skin with water or shower.
- **If in eyes:** rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a poison centre or doctor. In an emergency call 112 (EU emergency number). Show the package or label to the doctor.

3.4 Older package version

An older version marked **25 ml** with EAN 8596450009257 (resin UFI N9KV-Y02Q-100M-JP7V, hardener UFI TDKV-F0S3-C004-70TX), which has a different hardener composition, may also be on the market. For this version the hazard information on its label applies, in particular:

- **Resin (component A) - Warning:** may cause an allergic skin reaction. If on skin: wash with plenty of water and soap; if skin irritation or rash occurs, get medical advice/attention.
- **Hardener (component B) - Warning:** harmful if swallowed or if inhaled. Use only outdoors or in a well-ventilated area. Call a poison centre or doctor if you feel unwell.

4. Storage and shelf life

- Store in a tightly closed container in a cool, dry and dark place at 10 °C to 25 °C. Do not expose to temperatures below 10 °C.
- Refit the cap after each use – do not confuse the resin and hardener caps.
- Under proper storage conditions the manufacturer states a shelf life of 1 year while maintaining the stated properties. According to the manufacturer, epoxy resins based on bisphenol A and epichlorohydrin keep their properties for many years when stored correctly.

Thickening of the resin

The originally clear resin may thicken (crystallise like honey) and lose its transparency as a result of low temperatures, humidity or time. Gently warming it in hot water (60–70 °C) for a few minutes until the resin is clear again throughout restores its original properties.

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

Brand and manufacturer of the adhesive: KAVAN, KAVAN Europe s.r.o., www.kavanrc.com.

5.2 Disposal

- The product is **not electrical equipment**; take-back of waste electrical equipment does not apply to it.
- Uncured resin and hardener residues and containers with their residues are **hazardous waste**. Do not pour them into drains or the environment and do not dispose of them with mixed municipal waste.
- Take them to a hazardous waste collection point – in the Czech Republic to a municipal collection yard or a mobile collection of hazardous municipal waste organised by your municipality.
- Outside the Czech Republic, follow the waste 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.