

Special Epoxy Adhesive

UZIN KR 421

2-component, flexible epoxy resin adhesive for interior and exterior use

Description:

Flexible 2-component epoxy resin adhesive generally suitable for interior and exterior use with resilient floor coverings.

Especially suitable for sheet and tile flooring subject to mechanical wear, moisture attack or temperature extremes, e.g.:

- ▶ Homogeneous and heterogeneous PVC and cushioned vinyl flooring
- ▶ Rubber flooring
- ▶ Synthetic grass, outdoor and sports flooring
- ▶ Special polyolefin flooring, e.g. Stratica® from The Amico Company Limited (obtain technical advice)
- ▶ In work areas, commercial, industrial and sports locations
- ▶ Onto absorbent and non-absorbent, load-bearing, dimensionally stable substrates as well as existing resilient or mineral floor finishes

Suitable for use in heavy wear areas, e.g. for castor resistance according to DIN EN 12 529 and on underfloor heating systems.

Product Properties / Benefits:

Paste consistency, water-free, 2-component resin adhesive, produced by mixing Resin A with Hardener B. Combines the high water-, chemical- and alkaline-resistance of epoxy resin with the flexibility of polurethane for a wide range of uses.



Binders: Special epoxy resin cross-linked with polyamine.

- ▶ High filling capacity with negligible shrinkage
- ▶ Very high bond-strength
- ▶ Good flexibility
- ▶ High final strength
- ▶ Excellent mechanical / chemical resistance
- ▶ Water-, heat- and cold- resistant
- ▶ Low in solvent

Technical Data:

Packaging:	tin-plated combi-can
Packsize (A + B):	2 kg, 5 kg, 10 kg
Shelf-Life:	min. 12 months
Colour:	light beige
Mixing Ratio:	A : B = 100 : 6 parts by weight
Specific density:	approx. 1.33 kg / litre
Consumption:	300 – 1200 g / m ² for details see table on reverse side
Coverage:	1.7 – 6.7 m ² (2 kg) 4.2 – 17.0 m ² (5 kg)
Working temperature:	min. 15 °C / 59 °F at floor level
Pot-life:	approx. 60 minutes*
Working time:	0 – 90 minutes*
Set to loading / traffic:	after 12 – 24 hours*
Final strength:	after 3 – 5 days*

*Under normal conditions at 20 °C / 68 °F.

Subfloor Preparation:

The substrate must be level, sound, free from cracks, permanently dry, clean and free from materials which would impair adhesion. Test the substrate according to applicable standards and report any deficiencies.

Brush, abrade, grind or shot-blast loose or weak surfaces. Thoroughly vacuum the substrate. Select appropriate primer and smoothing compound from the UZIN Product Guide according to surface type and occupational use.

Examples of Primer (P) / Smoothing Compound (S):

Cement Screeds: (P) UZIN PE 360 / (S) UZIN NC 150 (EC1), UZIN NC 160 (EC1) or UZIN NC 170

Calcium Sulphate Screeds: (P) UZIN PE 360 / (S) UZIN NC 110

Mastic Asphalt: (P) UZIN PE 260 (if not gritted) / (S) UZIN NC 110

Wood Surfaces: (P) UZIN PE 260 or UZIN PE 630 / (S) UZIN NC 175 (min. 3 mm thickness)

Existing Surfaces with well-bonded adhesive residues:

(P) UZIN PE 260 / (S) UZIN NC 150 (EC1), UZIN NC 170 or UZIN NC 182

Always allow primers and smoothing compounds to dry thoroughly. Refer to the Product Data Sheet for the products used.

Application:

1. Before use, allow the combi-can to come to Room temperature. Puncture the plastic plug and floor of the lid container (Hardener B) several times, e.g. with a long screwdriver. Allow all of the hardener to flow into the base container (Resin A). Remove the empty lid container and thoroughly mix the two components with a suitable drill attachment (spiral, propeller or basket type, etc.). Ensure proper mixing, especially around the floor and walls of the container. Select packsize so that the adhesive quantity can be fully used before the end of its pot-life.
2. Apply the adhesive evenly onto the substrate using a suitable notched trowel. Lay in the covering immediately, rub well down and, after approx. 2 hours, roll. Calculate the adhesive quantity so that good transfer is achieved but the covering does not float or slide. Use the adhesive quickly. Observe the limited pot-life.
3. Clean off any adhesive contamination whilst still fresh using Thinners UZIN VE 124. Hardened adhesive can only be removed by mechanical means. Mixed product held in bulk, i.e. left in the can, will cure very quickly.

Consumption:

Trowel notch size and consumption depend, amongst other factors, on the condition of the surface and the structure of the backing of the covering, e.g.:

Surface	Backing	Notch	Consumption
Smooth	Smooth	A1	300 – 350 g/m ²
Rough	Sanded	A2	350 – 400 g/m ²
Smooth/Rough	Coned	B3	800 – 1200 g/m ²

Important Notes:

- ▶ Minimum shelf-life 12 months in original packaging and in cool, dry storage conditions. Optimum storage temperature 15 – 25 °C / 59 – 77 °F.
- ▶ Best applied at 18 – 25 °C / 64 – 77 °F and floor temperature above 15 °C / 59 °F. Low temperatures extend, whilst high temperatures shorten the pot-life and setting times.
- ▶ Inadequately mixed adhesive stays soft and has no strength, therefore ensure it is mixed well for several minutes and do not use the scraped out residue.
- ▶ The following standards and notices are applicable and especially recommended: BS 8203, BS 8204, BS 5325 / DIN 18 365 "Floor Covering Work" / Leaflet from the Adhesives Industrial Association "Adhesion of Elastomeric Flooring".

Protection of the Workplace and the Environment:

Non flammable. Comp. A: Irritant. Contains epoxy resin. Comp. B: Corrosive. Contains amine hardener. Both components: May cause irritations or burns to eyes, skin or respiratory system. May cause sensitisation on skin contact. Use barrier cream, protective gloves and safety-goggles. Provide good ventilation. After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Observe safety information on product label as well as safety data sheet. Once cured, presents no physiological or ecological risk.

Disposal:

Dispose of empty packaging according to local regulations. Collect waste material, mix, allow to dry out and harden-dispose of as Construction Waste. Dispose of unmixed product as Special Waste.