

UZIN KR 430

Flexible polyurethane adhesive for heavy-duty floor coverings

Description:

UZIN KR 430 is a 2-component polyurethane adhesive for rubber and PVC floor coverings on dry substrates. The adhesive is especially suitable for areas subject to heavy use. For interior and exterior use.

As a special adhesive:

- ▶ for PVC and CV coverings in tiles for luxury vinyl tiles
- ▶ for rubber in tiles up to 10 mm thickness (e.g. nora-ment®)
- ▶ for rubber granulate coverings or underlays (e.g. Regupol®)
- ▶ for linoleum in tiles up to 4 mm thickness
- ▶ for artificial grass, outdoor or sports floor coverings
- ▶ in combination with UZIN RR 185 and industrial floor coverings (e.g. Gerflor GTI®)
- ▶ on levelled, absorbent or non-absorbent substrates
- ▶ on flexible or deformable substrates (e.g. underlays, wood, metal)
- ▶ on warm water underfloor heating system
- ▶ for exposure to castor wheels in accordance with DIN EN 12 529
- ▶ for heavy wear in residential, commercial and industrial locations
- ▶ for wet shampooing and spray extraction cleaning according to RAL 991 A2



Product benefits / properties:

UZIN KR 430 offers a wide application field and extremely high final strength and hardness.

Composition: Polyurethane made from polyol and polyisocyanate.

- ▶ Odourless during and after application
- ▶ No shrinkage
- ▶ Flexible yet hard
- ▶ High resistance to heat and cold
- ▶ Solvent-free
- ▶ EMICODE EC 1 R PLUS / Very low emission

Technical specifications:

Packaging:	plastic combi-can
Pack sizes:	3 kg, 8 kg
Shelf life:	min. 12 months
Colour wet / dry:	transparent / brownish
Mixing ratio:	A : B = 5 : 1 parts by weight
Consumption:	250 – 600 g/m ²
Working temperature:	min. 15 °C / 59 °F at floor level
Pot life:	20 – 30 minutes*
Working time:	up to 40 minutes*
Set to traffic:	after 12 – 24 hours*
Final strength:	after 3 – 5 days*
Sealing / filling joints:	after 12 – 24 hours*

*At 20 °C and 65 % relative humidity, depending on the type of floor covering and the absorbency of the substrate.



Substrate Preparation:

The subfloor must be level, sound, load bearing, dry, free from cracks, clean and free from material which would impair adhesion (e.g. dirt, oil, grease). The surface must be vacuumed, primed and levelled thoroughly with a high-tensile cementitious compound. Suitable primers and levelling compounds can be found in the UZIN product guide. On flexible substrates, such as mastic asphalt or underlays, smooth as required with the 2-component PU-levelling compound UZIN KR 410 and adhere the covering within 24 to 48 hours. Degrease and abrade dense and smooth substrates and prime if necessary. The substrate must be tested in accordance with applicable standards and bulletins and any deficiencies must be reported. Always allow primer and levelling compound to dry well all the way through.

Refer to the Product Data Sheets for other products used.

Application:

1. Before use, allow combi-can to come to room temperature. Mix resin and hardener as described on the bucket. Ensure proper mixing, especially around the walls and floor of the container. If the adhesive is not well mixed it will not harden.
2. Apply an even coat of adhesive onto the substrate with a suitable notched trowel and allow to partially dry according to the quantity applied, climatic conditions, substrate absorbency and type of covering. Measure the adhesive quantity so that there is good transfer to the backing of the covering and ensure that the covering does not 'float'. Apply the adhesive quickly, observe the pot life and avoid leaving pressure-marks.
3. Lay in the covering, rub down and, after approx. 2 hours, roll.
4. Remove residues while fresh with clothes of UZIN Clean-Box. Hardened adhesive can only be removed mechanically.

Consumption:

Covering type / Backing type	Notch Size	Consumption*
smooth/sanded, e.g. norament® with sanded backing	A 2 / A 5	250 – 350 g/m ²
coarse/textured, e.g. linoleum or sports flooring	B 1 / B 2	400 – 600 g/m ²

* At 20 °C and 65 % relative humidity, with tempered adhesive buckets on UZIN NC 170 LevelStar.

Important Notes:

- ▶ Shelf life minimum 12 months in original packaging when stored in relatively cool conditions. Frost resistant up to – 25 °C.
- ▶ Optimum work conditions are 18 – 25 °C, floor temperature above 15 °C and relative air humidity below 75 %. Low temperatures and low air humidity lengthen, whilst high temperatures and high air humidity shorten the drying time.
- ▶ Do not mix part quantities!
- ▶ Before bonding floor coverings must be adequately acclimatised and free from tension and must be adapted to the common indoor climate for future use.
- ▶ In connection with UZIN PUR-accelerator the hardening of the adhesive can be speeded up, e.g. with worse climatic conditions and earlier demand of load.
- ▶ UZIN KR 430 is suitable for use under goods handling trucks with very heavy loading up to 50 kp/cm².
- ▶ UZIN KR 430 must be protected from alkaline moisture. In areas where water occurs only from the substrate, you have to use e.g. UZIN PE 460 as a moisture barrier below the levelling compound. In areas where water also or only occurs from above, you have to use e.g. UZIN PE 460 as a moisture barrier on the levelling compound.
- ▶ For the applications coating, sealing, cleaning and maintaining the products of UZIN Care can be used to (UZIN Basic Cleaner, UZIN Turbo Protect Plus, UZIN Resilient Sealer, UZIN Resilient Care, UZIN Refresher). For further information please refer the separate product data sheets.
- ▶ The following standards, regulations and publications are applicable and especially recommended:
 - DIN 18 365 "Working with floor coverings"
 - TKB specification sheet "Assessment and preparation of surfaces for floor covering and wood floor covering"
 - BEB specification sheet "Assessment and preparation of surfaces"
 - TKB specification sheet "Adhesion of elastomeric floor coverings"

Protection of the Workplace and the Environment:

Solvent-free. Non flammable. Comp. A: Requires no special protection or precautions in general use. Comp. B: Contains diphenylmethane-diisocyanate (MDI). Harmful on inhalation. Irritating to eyes, respiratory system and skin. There is limited evidence of a carcinogenic effect for respirable vapours of MDI. May cause sensitisation by inhalation and 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, has a neutral odour and presents no physiological or ecological risk. Does not contaminate the indoor air quality with either formaldehyde or other volatile compounds.

EMICODE EC 1 R PLUS – very low emission.

Disposal:

Where possible, collect product residues and re-use. Do not empty into drains, sewers or ground. Empty, scraped and drip-free containers are recyclable. Liquid residues as well as containers with liquid residues are special waste, those with mixed and cured residues are Construction Waste. Therefore collect waste material, mix both components and allow to harden, then dispose as Construction Waste.