

2-Component PU Adhesive

UZIN KR 430

Flexible polyurethane adhesive for heavy-duty floor coverings

Description:

2-component polyurethane adhesive for rubber floor coverings, linoleum and sports flooring as well as for bonding joining-tape for artificial grass. Suitable for use on dry substrates, e.g. on cement- and calcium sulphate-screeds, mastic asphalt, concrete, wood, chipboard, ceramics, stone, metal, etc.

Suitable for/on:

- ▶ rubber floor tiles up to 10 mm thick and with sanded or coned backing, e.g. Norament® coverings
- ▶ linoleum sheet and tile up to 4 mm thick
- ▶ rubber granulate coverings or underlays, e.g. Regupol®
- ▶ artificial grass and outdoor- or sports-floor coverings
- ▶ level substrates, including non-absorbent surfaces
- ▶ flexible or deformable surfaces, e.g. resilient underlays, metal or wood
- ▶ heaviest wear in commercial, industrial, heavy load and sports areas
- ▶ use under goods handling trucks with very heavy loading up to 50 kp/cm²
- ▶ warm water underfloor heating and for exposure to castor wheels in accordance with DIN EN 12 529
- ▶ wet shampoo and spray extraction cleaning systems

Product Properties / Benefits:

Smooth, paste-consistency, water-free, 2-component reaction resin adhesive made by mixing Resin A and Hardener B. Solvent- and water-free, therefore suitable for many substrates, coverings, materials and uses.



Binder: Polyurethane made from polyol and polyisocyanate.

- ▶ No shrinkage
- ▶ Extremely high final strength
- ▶ Flexible yet hard
- ▶ High resistance to heat and cold
- ▶ Solvent-free
- ▶ EMIDCODE EC 1R PLUS/Very low emission PLUS

Technical Data:

Packaging:	metal combi-can
Packsizes (A + B):	2.5 kg, 6 kg, 12 kg
Shelf life:	min. 12 months
Colour:	grey
Mixing ratio:	A : B = 5 : 1 parts by weight
Consumption:	300 – 1300 g/m ² see "Consumption"
Working temperature:	min. 15 °C/ 59 °F at floor level
Pot life:	20 – 30 minutes*
Working time:	up to 40 minutes*
Load bearing / traffic:	after 12 – 24 hours*
Final strength:	after 3 – 5 days*
Welding joints:	after 12 – 24 hours*

*At 20 °C/68 °F and 65 % relative humidity.

Substrate Preparation:

The substrate must be sound, level, dry, free from cracks, clean and free from materials that would impair adhesion. Test the substrate in accordance with applicable standards and notices and report any deficiencies.

Thoroughly vacuum the surface, prime and apply smoothing compound. According to substrate, covering and occupational use, select suitable primers and levelling compounds from the UZIN Product Guide. Use high strength cement compounds. On flexible substrates, such as mastic asphalt, metal or underlays, smooth as required with UZIN KR 410 2-Component PU Levelling Compound and adhere the covering within 24 to 48 hours.

Degrease and abrade dense, smooth surfaces and, if necessary, prime. Refer to the Product Data Sheets for other products used.

Application:

1. Before use, allow the container to come to room temperature*. Punch several times through the plastic plug and the floor of the upper container (Hardener B), e.g. with a long screwdriver. Allow the hardener to drain completely into the lower container (Resin A). Remove the empty upper container and thoroughly blend the combined components using suitable mixing equipment (e.g. UZIN Basket Mixer or UZIN Spiral Mixer) for at least 2 minutes. Ensure proper mixing, especially around the walls and floor of the container.
2. Apply the adhesive to the surface with a suitable notched trowel and, in accordance with the quantity applied, climatic conditions, substrate absorbency and type of covering, allow an open time. Lay in the covering, rub down and, after approx. 2 hours, roll. Measure the adhesive quantity so that there is good transfer to the backing of the covering but so that the covering does not 'float'. Apply the adhesive quickly. Observe the pot life. Avoid leaving pressure-marks.
3. Clean off adhesive contamination whilst still fresh using UZIN VE 124 thinners or suitable hard wax. Hardened adhesive can only be removed by mechanical means.

Consumption:

Backing	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
coarse / rough, e.g. Norament® with coned backing	B 3 / C 1	800 – 1300 g / m ²

* At 20 °C / 68 °F and 65 % relative humidity, on prepared surfaces and with acclimatised adhesive containers.

Important Notes:

- ▶ Shelf life approx. 12 months in original packaging when stored in dry conditions. Before use, allow the adhesive to come to room temperature.
- ▶ Optimum conditions are 18 – 25 °C / 64 – 77 °F, floor temperature above 15 °C / 59 °F and relative humidity below 75 %. Low temperatures and high humidity lengthen, whilst high temperatures and low humidity shorten the working-, setting and drying time.
- ▶ Inadequately mixed adhesive stays soft and has no strength, therefore acclimatise the adhesive for several minutes, mix well and do not scrape out the containers.
- ▶ Coverings must be adequately acclimatised to de-stress before bonding and must be conditioned to the normal climatic conditions that will apply in later use.
- ▶ When installing rubber sheet flooring, obtain technical advice.
- ▶ For high resistance to alkaline concrete moisture or chemicals, as well as in permanently wet areas, use UZIN KR 421 2-Component Epoxy Adhesive.
- ▶ Do not mix part quantities.
- ▶ Ensure that the mixed adhesive is removed from the container and is used as quickly as possible.
- ▶ The following standards and notices are applicable and especially recommended:
 - DIN 18 365 "Working with floor coverings"
 - publication by the Adhesives Industry Association "Assessment and preparation of substrates – bonding resilient and textile floor coverings"
 - TKB publication "Assessment and preparation of substrates for floor coverings and wood flooring"
 - BEB publication "Assessment and preparation of substrates"

Protection of the Workplace and the Environment:

Solvent-free. Non flammable. Comp. A: Requires no special protection or precautions in general use. Comp. B: Harmful. Contains diphenylmethane-diisocyanate. 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, presents no physiological or ecological risk. Does not contaminate the indoor air quality with either formaldehyde or other volatile compounds.

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. 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.