

EPOXY ADHESIVE EK 30

- > Force-fit bond to many building materials
- > Stable up to 30 mm
- > Adheres to damp concrete substrates
- > Waterproof
- > Shrinkage-free hardening



Product description

Murexin Epoxy Adhesive EK 30 is a 2-component, thixotropic adhesive mortar with matched fillers for the force-fit bonding of various building materials, such as concrete, natural stone, brick, masonry, glass, aluminium, CFRP and steel.

The mortar is used for bonding, for example, concrete components, steel and CFRP lamellas, sealing tapes, for reprofiling edges and holes and for sealing joints, and is suitable for indoor and outdoor use.

Construction adhesive according to ÖNORM EN 1504-4

- Reinforcement with bonded panels (method 4.3)
- Bonded mortar or concrete (method 4.4)

Delivery format

Container	Outer packaging	Pallet
24 KG / BHO	-	16 BHO
9.6 KG / BHO	-	42 BHO
6 KG / BLE	-	80 BLE
2.4 KG / BHO	-	80 BHO

Storage

Can be stored frost-free, cool, and dry on wooden shelves in the unopened original container for 365 days

Processing

Recommended tools

spatula, trowel, notched trowel

Mixing

Murexin Epoxy Adhesive EK 30 is supplied in containers adjusted to the mixing ratio. Mix component A and component B in a mixing ratio of 4:1 with a slow-running (max. 300 rpm) electric agitator (approx. 3 minutes) until a homogeneous, streak-free mixture is obtained. Repot the mixed material in a clean container and mix again briefly.

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Avoid stirring in air.

When mixing partial quantities, weigh the two components in the correct mixing ratio using a scale and only mix as much material as can be processed within the processing time.

Processing

The mixed mortar is applied to the substrate (ideally to both substrates) with a trowel or notched trowel to the required thickness and the components to be bonded are joined together.

Vertical and overhead bonding of heavy building materials must be fixed for at least 12 hours to prevent slipping.

When used as a reprofiling mortar, the mortar can be applied up to a layer thickness of 30 mm in one step.

Tool cleaning:

Clean tools and equipment with water immediately after use. Hardened material can only be removed mechanically.

Technical data

Chemical base	epoxy resin, selected fillers
Density	~ 1.70 kg/litre (mixture)
Colour	comp. A white, comp. B dark grey, mixture concrete grey
Consumption	~ 1.70 kg/m ² /mm
Mixing ratio	4:1 parts by weight
Pot life	~ 60 minutes (at 23 °C)
fully load-bearing	7 days
Certificates/test reports/class achieved	ÖNORM EN 1504-4
Compressive strength	after 24 hours: approx. 25 MPa; after 3 days: approx. 50 MPa; after 7 days: approx. 60 MPa; after 28 days: approx. 69 MPa
Substrate temperature	min. +5 °C / max. +30 °C (pay attention to dew point)
Processing temperature	min. +5 °C / max. +30 °C (pay attention to dew point)
Material thickness	1-30 mm
Shrinkage behaviour	< 0.1 %
Adhesive tensile strength on dry concrete	~ 3.0 MPa
Adhesive tensile strength on slightly moist concrete	~ 3.50 MPa
Adhesive tensile strength (surface exposed to water after application)	~ 3.50 MPa

Substrate

Suitable substrates

The substrate must be clean, solid, dry (concrete can be slightly moist) and free of adhesion-reducing components and old coats of paint. Poorly adhering parts must be removed.

Concrete must be at least 28 days old and have a surface peel strength of at least 1.5 MPa.

Steel surfaces must be derusted to a cleanliness level of SA 2 1/2.

The substrate temperature must be at least +5 °C and at least +3 °C above the dew point temperature at the time of application.

Product and processing instructions

Material instructions:

- When working outside the ideal temperature and/or humidity range, the material properties may change significantly.
- Bring materials to correct temperature before processing!
- To retain the product properties, no foreign materials may be mixed in!
- Water addition amounts or dilution instructions may be precisely adhered to!
- Check tinted products before use for colour accuracy!
- Colour consistency can only be guaranteed within a batch.
- The environmental conditions significantly influence colouring.

Environmental information:

- Do not process at temperatures below + 5 °C!
- The ideal temperature range for the material, substrate and air is + 15 °C to + 25 °C.
- The ideal humidity range is 40 % to 60 % relative humidity.
- Increased humidity and/or lower temperatures delay, low humidity and/or higher temperatures accelerate drying, setting and hardening.
- Ensure adequate ventilation during the drying, reaction and hardening phase; avoid draughts!
- Protect from direct sunlight, wind and weather!
- Protect adjacent components!

Tips:

- We categorically recommend using a test surface first or a small area for initial, small-scale testing.
- Observe the product data sheets of all MUREXIN products used in the system.
- Keep a genuine original container of the respective batch for later repair work.

The information provided reflects average values obtained under laboratory conditions. Due to the use of natural raw materials, the indicated values of individual batches may vary slightly without impacting the product suitability.

Safety instructions

This leaflet is based on extensive experience, is intended to convey the best of our knowledge, is not legally binding and does neither constitute a contractual legal relationship nor a subsidiary obligation resulting from the bill of sale. The quality of our materials is guaranteed within the framework of our general terms and conditions. Our products may be used by professionals and/or experienced and accordingly technically skilled persons only. Users are not released from inquiring in case of uncertainties or from rendering professional workmanship. We recommend using a test surface first or a small area for initial, small-scale testing. Naturally, it is not possible to describe or foresee all possible current and future uses and peculiarities. Information that is assumed to be familiar to experts has been omitted.

Please observe the current, technical, national and European standards, guidelines and data sheets regarding materials, substrates and the subsequent construction. Please contact us if you have any reservations or doubt.

This version is rendered invalid if a new version is released. The most recent data sheets, safety data sheets and the terms and conditions are available online at www.murexin.com.