

EPICOL U NEW

THIXOTROPIC EPOXY ADHESIVE



DESCRIPTION

EPICOL U NEW is an epoxy-based filler adhesive for concrete, brick, stone, steel, wood and inorganic building materials, dry and wet.

BENEFITS

- High adhesive power
- Adheres to dry and wet surfaces
- Simple mixing ratio 2 : 1 with colour control
- Exceptional adhesion to steel
- Good filling capacity
- Impermeable
- High mechanical strength
- Shrink-free hardening
- Solvent-free
- Applicable horizontally and vertically
- Can be worked after curing

FIELD OF APPLICATION

EPICOL U NEW is applied as a structural adhesive for the affixing of glued reinforcements and placement of anchor applications on steel, glass fibre or carbon fibre.
Suitable for bonding flexible joint strips.

APPLICATION

Note: The following is a typical application description. In case of other jobsite parameters, please contact our technical department.

PRELIMINARY ANALYSES

Before starting the substrate preparation and applying the products, it is important to test various parameters in order to achieve a good and sustainable result.

Compressive strength of the substrate: min. 25 N/mm²

Tensile strength of the substrate: min. 1,5 N/mm²

EPICOL U NEW is applicable on dry, damp and wet substrates. Standing water must be removed before applying the adhesive.

REQUIRED TOOLS

- Electric mixer with mixing spindle
- Spatula or trowel

PREPARATION OF THE SUBSTRATE

Make sure the surface is clean, dry or damp. Remove standing water from the surface by wiping with a cloth. The recommended processing temperature for the surface, the surroundings and the material is 15 to 25 °C. Do not use below 10 °C. Remove rust and dust from steel, degrease and descale. Carbon fibre rods must first be etched with SOLVENT MEK.

PREPARATION OF THE PRODUCT

Stir the base (component A) evenly before use. Add the full amount of hardener (component B) and mix mechanically (300rev/min) until both components are homogeneous.

PREPARATION OF THE EQUIPMENT

Always work with clean mixing containers and application material.

APPLICATION

Use mixed EPICOL U NEW as quickly as possible.
Apply EPICOL U NEW with an adhesive spreader, spatula or trowel. The minimum layer thickness is 2mm. Heavy parts must be supported for at least 24 hours.

COMPLIMENTARY PRODUCTS

Cleaning solvent for tools: SOLVENT MEK.

TECHNICAL DATA

APPEARANCE - COMPOSITION

A-component	White thixotropic paste of epoxy resin and filler
B-component	Polyamine hardener paste
Colour	Mixing colour concrete grey

REACTION TIMES

EPICOL U NEW is fully mechanically loadable after 48 hours and chemically loadable and completely cured after 7 days. Times measured at 20 °C, lower temperatures extend the curing time.

CONSUMPTION

Is estimated by the engineer or user. Depends on the bonding application.

TECHNICAL DATA

Specific mass	1,5 kg/dm ³
Adhesion to dry and wet concrete	Superior to the cohesion of the material
Adhesion to steel (EN 1542)	≥10 N/mm ²
Adhesion to oak wood (EN 1542)	≥ 6 N/mm ²
Flexural strength (EN12188)	≥12 N/mm ²
Sustainability according to method 4.4 from EN 1504-9 (EN 13733)	Succeeded
Thermal coefficient of expansion (EN 1770)	49,1 x 10 ⁻⁶
Total shrinkage (EN 12617-1)	0,05 %
Heat resistance	60 °C
Layer thickness	From 2 mm
Min. application temperature	+10 °C
Min. hardening temperature	+5 °C
Processing time	+/- 90 minutes at 20 °C

CHEMICAL RESISTANCES

Good chemical resistance to alkalis, petroleum derivatives, acid, diluted organic acids, salts and solutions. For more information please contact RESIPLAST NV.

REFERENCE DOCUMENTS**PACKAGING**

EPICOL U NEW	COMPONENT A	COMPONENT B
Set 3 kg	2 kg	1 kg

STORAGE AND SHELF LIFE

Store EPICOL U NEW in a dry, well ventilated storage area between 5 and 35 °C.

24 months shelf life.

If in doubt, contact RESIPLAST NV and provide the batch number on the package. Do not let the product get in contact with ground water, surface water or sewage systems. Dispose of contaminated packaging and remnants according to legal regulations.

SAFETY PRECAUTIONS

Carefully read the safety instructions before using EPICOL U NEW. Products have a characteristic odour when being applied. Ensure there is sufficient ventilation, stay away from ignition sources and do not smoke. Avoid contact with skin. Eye irritation and/or sensitivity may occur during heavy vapour concentrations, inhalation and/or skin contact. Do not keep food products (food, beverages) in the same workspace. Always wear personal protective equipment according to local guidelines and regulations. Gloves and safety goggles are mandatory.

The above information is provided in good faith, but without any guarantees. The application, use and processing of the products are beyond our control and are, as such, the sole responsibility of the user/processor. In the event that KorAC NV is still held liable for damages, then the claim will still be limited to the value of the goods delivered. We always aim to deliver consistently high quality goods. All values on this technical sheet are average values that result from tests carried out under laboratory conditions (20 °C and 50% RH). Values that are measured on the construction site may show a slight deviation since the environmental conditions, the application, and the way of processing our products are beyond our control. Do not add any products other than those indicated on the technical documentation. This version replaces all previous versions. Version 2.0 Date: 12 February 2024 1:40 pm