

UHU® PLUS ENDFEST 300

EXTREMELY STRONG, UNIVERSAL, SOLVENT-FREE, DUAL-COMPONENT EPOXY ADHESIVE



PRODUCT DESCRIPTION

Extremely strong, universal, solvent-free, dual-component epoxy adhesive.

FIELD OF APPLICATION

Suitable for bonding metal, stone, concrete, porcelain, wood, glass, many synthetics. Ideal for (industrial) joints, which must meet the highest requirements, such as in electrical engineering, metalworking and automation. Not suitable for bonding of PE, PP, PTFE, polystyrene and soft PVC.

PROPERTIES

- Extremely high final bond strength (300 kg/cm²)
- Extremely loadable
- Shockproof
- Filling
- Water resistant
- All-weather resistant
- Solvent-free
- Resistant to many solvents, diluted acids and alkalis
- Can be sanded, filed, drilled and painted after curing
- Provided with UL approval

PREPARATION

Working conditions: Only use at temperatures between +15°C and +25°C and with maximum relative humidity of 65%. To prevent the formation of bubbles by condensatin, the temperature of the adhesive and materials to be bonded should be the same as the ambient temperature and preferably between +18°C and +20°C. Process in a draft-free space.

Temperatures below +18°C slow down the curing process and result in less bonding strength. Additional heat (heater, infrared heater, or similar) is necessary for processing in cold conditions and in open air. Higher final bond strength is achieved when the curing process takes place at high temperatures up to a max. 180°C).

Personal safety: It is recommended that rubber or plastic gloves are worn.

Surface requirements: The materials to be bonded must be dry, clean free of grease.

Preliminary surface treatment: Thoroughly clean surfaces before bonding, for example, with acetone. Depending on the surface, roughen the parts to be bonded with, for example, Griffon scouring fibre or Griffon emery cloth.

Tools: Plus Gun en Plus static mixers.

APPLICATION

Mixture ratio: 1:1 (by volume)

Place the double syringe in the Plus Gun. Remove the cap of the double syringe. Press both components from both chambers and then place the Plus Static mixer. Apply the adhesive to rough materials on both sides, to smooth materials on one side. Next add materials together and fixate (clamping or pressing is not necessary). After use, remove static mixer and place cap on the double syringe.

Potlife: 90 minutes

Stains/residue: Remove wet adhesive residue immediately with warm water and soap. Dry adhesive residue can only be removed mechanically.

CURE TIMES*

Drying/Curing time: approx. 90 minutes

Final bonding strength after: approx. 12 hours

Afschuifsterkte UHU Plus endfest 300

Résistance au cisaillement UHU Plus endfest 300

Temperatuur Température	Uithardings tijd Temps de séchage	Eindsterkte ¹ Résistance finale ¹
20°C	12 uur	± 1200 N/cm ²
40°C	3 uur	± 1800 N/cm ²
70°C	45 min	± 2000 N/cm ²
100°C	10 min	± 2500 N/cm ²
180°C	5 min	± 3000 N/cm ²

¹Afschuifsterkte aluminium-aluminium

¹Résistance au cisaillement aluminium-aluminium

* Curing time may vary depending on a.o. surface, product quantity used, humidity level and ambient temperature.

UHU[®]

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COMPONENT EPOXY ADHESIVE**

TECHNICAL PROPERTIES

Moisture resistance: Good

Water resistance: Good

Temperature resistance: -40°C - +100°C

UV resistance: Very good

Chemicals resistance: Very good

Paintability: Good

Filling capacity: Very good

TECHNICAL SPECIFICATIONS

Appearance: Binder: Opaque with high viscosity; Hardener: Honey

Coloured with medium viscosity

Chemical base: Binder: Epoxy Resin; Hardener: Aliphatic Amines

Bonding technique: 1-sided application

Consistency: Liquid

Viscosity: approx. 35.000 mPa.s., Liquid

Solid matter: approx. 100 %