

# UHU<sup>®</sup> 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/cm<sup>2</sup>)
- 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	Uithardingstijd Temps de séchage	Eindsterkte <sup>1</sup> Résistance finale <sup>1</sup>
20°C	12 uur	± 1200 N/cm <sup>2</sup>
40°C	3 uur	± 1800 N/cm <sup>2</sup>
70°C	45 min	± 2000 N/cm <sup>2</sup>
100°C	10 min	± 2500 N/cm <sup>2</sup>
180°C	5 min	± 3000 N/cm <sup>2</sup>

<sup>1</sup>Afschuifsterkte aluminium-aluminium

<sup>1</sup>Résistance au cisaillement aluminium-aluminium

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



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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 %

Note: This information is the result of carefully executed tests. This Technical Data Sheet has been prepared to the best of our knowledge to provide you with advice when gluing. We cannot be held responsible for the results or any damage suffered, as the variety of factors involved (type and combination of materials and working method) are beyond our control. Users have to carry out their own checks and trials. Liability can only be accepted for the consistently high quality of our product.