PLUS ENDFEST 300

UNIVERSAL STRONG TWO-COMPONENT ADHESIVE



PRODUCT DESCRIPTION

Universal strong two-component adhesive Hardened ENDFEST 300 has excellent electrically insulating properties: specific resistance: 5,6-5,8, 10^{13} Ω.cm, at 100 V und 21 °C. Thermal conductivity DIN 52612: 0,249 W/m·K at 28,3 °C. The coefficient of linear thermal expansion is $90 \cdot 10^{-}$#K^{-1} at 20 °C. Compressive strengths (DIN 53454 measured on 10 mm-cube): 100 : 50 GT approx. 69 N/mm² 100 : 80 GT approx. 45 N/mm² 100 : 100 GT approx. 16 N/mm² GT = parts of weight

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, silicone rubber and soft PVC.

PROPERTIES

· Extremely high final bond strength (300 kg/cm²)
· Extremely loadable
· Shockproof
· Filling
· Water resistant
· All-weather resistant
· VOC free
· Resistant to many solvents, diluted acids and alkalis
· Can be sanded, filed, drilled and painted after curing
· Provided with UL approval
· Resistant to temperatures between -40°C and +100°C

PREPARATION

Working Conditions: Recommended application at temperatures between +10°C and +35°C. Product cures by mixing the resin and hardener.
Personal safety: Preferably wear gloves.
Surface Requirements: The materials to be bonded must be dry, clean, free of dust and grease.
Preliminary Surface Treatment: Degrease parts to be bonded with acetone. Roughen smooth surfaces (sandpaper).
Tools: Mix the components by means of the supplied mixing bowl and spatula.

APPLICATION

Directions for use:
Press out an equal amount of both components onto the enclosed mixing tray. Mix these two equal parts well with a synthetic spatula until a mixture is obtained with a homogeneous colour. Apply the mixture, which at room temperature (+20°C) remains toolable for about 1.5 hours, as a thin layer on one of the two materials. Join the materials and keep them in place for 7 hours. Be careful not to move the parts before the adhesive has cured. Resin and hardener must not come into contact with each other unless for usage.
Stains/residue: Remove wet stains immediately with warm water and soap. Cured adhesive residue can only be removed mechanically.
Points of attention: Close well after use. For optimum performance it is important to create a larger amount of adhesive and mix it very well. Curing time depends on the temperature. Adhesive does not cure below +5°C.

Our advice is based on extensive research and practical experience. However, in view of the large variety of materials and the conditions under which our products are applied, we assume no responsibility for the results obtained and/or any damage caused by the use of the product. Nevertheless, our Service Department is always at your disposal for any advice needed.

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TECHNICAL SPECIFICATIONS

Bonding technique:	1-Sided application
Chemical base:	Epoxy resin
Chemicals resistance:	Water, oil, grease, solvents, diluted acids and alkalis
Colour:	Opaque, honey coloured
Consistency:	Liquid
Density approx.:	1,15 g/cm³
Filling capacity:	Very good
Final bond strength (Alu):	19 N/mm²
Final bond strength after:	24 hours
Handling time:	6 hours
Minimum application temperature:	5 °C
Minimum temperature resistance:	-40 °C
Maximum temperature resistance:	100 °C
Moisture resistance:	Good
Mixture ratio:	1:1
Paintability:	Yes
Potlife:	90 min
Solvent free:	Yes
UV resistance:	Very good
Viscosity:	Medium viscosity
Viscosity approx.:	35000 mPa·s
Water resistance:	Good

STORAGE CONDITIONS

Store cool, dry, frost-free and tightly closed.

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