Technical Data Sheet
Adhesive epple-easy 5612-new

Issue: 03-2021

Description:

epple-easy 5612-new is a two-component, solvent-free adhesive on the basis of epoxy.

Application:

epple-easy 5612-new is transparent, so that it can be used for applications where the adhesive joint remains visible. Thanks to its low viscosity it can furthermore be applied as a combination of adhesive and cast resin.

Specific properties:

epple-easy 5612-new is being applied by means of a dual cartridge, so that manual mixing – in particular with small quantities - is not necessary. With larger quantities, the product can also be applied by means of a dispenser.

Type of mixer:

mini (40 ml): MX5.4-17-S
maxi (400 ml): MCA 12-24

Cartridge gun:

Gun mini DMA 50 with tappet PLA 050-04
Gun maxi DM 400

Application / Surface:

- The surface has to be clean and free from dust and grease.
- The assembly components need to be fixed appropriately until tangibility is reached.
- For further information regarding the use of the double cartridges please see our application instructions for epple-easy on our website www.epple-chemie.de and “equipment and accessories”.

Cleaning of tools:

Thinner 11

Packaging:

Cartridge

Basis / Characteristics

Components		Solvent-			Chemical Basis					
1-comp.	**2-comp.**	**free**	containing	aqueous	**EP**	PU	Acrylate	Chloro-prene	Polyvinyl-acetate	Terpoly-mer

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Properties of the liquid adhesive			
Property	**Component A**	**Component B**	**Following to standard**
Viscosity	6 – 9 Pas	1 – 3 Pas	DIN EN ISO 3219
Viscosity of mixture	4 – 9 Pas		DIN EN ISO 3219
Density	1.1 – 1.2 g/cm³ / 20 °C	1.05 – 1.15 g/cm³ / 20 °C	DIN 53479
Mixing rate	81 parts by weight 80 parts by volume	19 parts by weight 20 parts by volume	gravimetric volumetric
Colour of mixture	opaque		-
Loss on drying up to 140 °C	-		
Pot life	25 – 35 min		DIN VDE 0291-2
Storage	12 months in closed original containers, stored in a dry and cool but frost-free place. Ideal storage temperature: 5 – 30 °C.		

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Properties of the cured adhesive

Property	Value	Following to standard
Curing Ventilation time Time to handling strength Time to final strength	 none 4 h	-
Curing conditions / **Contact pressure**	> 5 °C, fix it until handling is possible / not necessary	-
Hardness (after 7 days at 20 °C) Shore-A Shore-D Pendulum hardness / König	 >90 65 – 75 -	 DIN 53505 DIN 53505 DIN 53157
Adhesive strength in the tensile shear test (after 7 days at ambient) Steel / steel (blasted SA 2,5)	 14 N/mm²	 DIN EN 1465
Surface adhesion	none	-
Temperature resistance (after 7 days at 20 °C)	-25 °C to +120 °C	-
Absorption of water 20 °C / 7 days	 0.4 – 0.9 %	 ISO 62
Chemical resistance (after 7 days; max. 3 months)	Water, diluted alkali Fuels Grease	epple-standard

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