

Description:

epple 37-new is a one-component, solvent-containing sealing compound on the basis of copolymers.

The sealant provides very good adhesive strength to metals and different plastics and it remains elastic at temperatures of up to 120 °C, gradual curing takes place with temperatures up to max. 400 °C.

Field of application:

Sealing of joints

epple 37-new is used for waterproofings under heavy thermal stress, e. g. for high-performance engines, turbines, drying plants and in kiln engineering.

It can furthermore be applied as sealant to flanges, cast iron pipes, drying drums, metal chimneys and to gears. Further possible applications: enameling lines, bakery equipment, screw connections and surfaces (at high temperature).

Specific properties:

epple 37-new is silicone-free and of remarkably high temperature resistance.

Application / Surface:

- The surfaces of the assembly components have to be clean and free from dust and grease.
- If possible, stir-up the sealing compound before use.
- With higher temperatures it is recommended to slowly heat up the material after drying.

Cleaning of tools:

Thinner 13

Packaging unit:

Cartridge, metal-tin, pail

Basis / characteristics

Components		Solvent-			Chemical Basis					
1C	2C	free	containing	aqueous	EP	PU	Acrylate	Chloro- prene	Polyvinyl- acetate	Copolymer

Properties of the liquid sealing compound

Property	Value	In accordance with standard
Viscosity	7 – 16 Pas (metal-tin) at 20 s ⁻¹ 80 – 190 Pas (cartridge) at 20 s ⁻¹ 200 – 360 Pas (cartridge) at 5 s ⁻¹	DIN EN ISO 3219
Density	1.3 – 1.5 g/cm ³ / 20 °C (metal-tin) 1.4 – 1.6 g/cm ³ / 20 °C (cartridge)	DIN 53479
Colour	grey	
Solid content	26 – 30 % (metal-tin) 16 – 23 % (cartridge)	
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 sealing compound

Property	Value	In accordance with standard
Curing Ventilation time Skin formation time Curing / track 4-6 mm	none 15 – 30 min 16 – 24 h / at 20 °C	
Curing conditions / Contact pressure	>5 °C, no contact pressure required, just fixing	
Hardness (after 7 days at 20 °C) Shore-A Shore-D	- -	DIN 53505 DIN 53505
Adhesive strength in tensile shear test (after 7 days at 20 °C) Steel / Steel (blasted SA 2,5)	2 – 3 N/mm ²	DIN EN 1465
Surface cleavability (after curing)	none	
Temperature resistance (after 7 days at 20 °C)	-25 °C to +400 °C (slow heating recommended)	
Chemical resistance (after 7 days; max. 3 months)	ammonia vapours ethanol butanol glycol (anhydrous) glycerine (anhydrous) fuel fuel oil mineral oil (up to 120 °C) water water (boiling) saline solutions 10 % detergent leach	epple-standard

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