Technical Data Sheet
Sealant epple 31-new

Stand: 04-2021

Description:

epple 31-new is a two-component filling compound on the basis of epoxy resins. It is loaded with iron powder and cures to a tough mould.

Field of application:

Sealing of seams and joints

Thanks to its high viscosity, **epple 31-new** is particularly suitable as filling compound for cavities e. g. in metals. It can also be used as adhesive, where larger gaps are to be bridged and for the repair of broken threads. In that case, **epple 31-new** is to be applied to the thread and a screw treated with a separating agent is to be turned into the soft resin. It can then be unscrewed again after curing of the resin.
After curing it is furthermore possible to finish **epple 31-new** mechanically, e. g. by grinding, drilling, milling etc.

Specific properties:

epple 31-new is silicone-free and does not contain any halogen compounds.

Application / Surface:

- The surfaces of the assembly components have to be clean and free from dust and grease.
- Decant component B into the tin of component A, mix the two components thoroughly and homogeneously. Eventually, fill over the mixture into another, clean container and stir the material again.
- The assembly components need to be fixed appropriately until tangibility is reached.
- If possible, stir-up the sealing compounds before use.

Cleaning of tools:

Thinner 11

Packaging unit:

Metal-tin

Basis / characteristics

Components		Solvent-			Chemical Basis					
1C	**2C**	**free**	containing	aqueous	**EP**	PU	Acrylat	Chloro-prene	Polyvinyl-acetat	

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Properties of the liquid sealing compound			
Property	**Component A**	**Component B**	**In accordance with standard**
Viscosity	250 – 350 Pas	140 – 400 Pas	DIN EN ISO 3219
Density	2.0 – 2.1 g/cm³ / 20°C	2.3 – 2.5 g/cm³ / 20°C	DIN 53479
Mixing proportion	50 Parts by weight 54 Parts by volume	50 Parts by weight 46 Parts by volume	Gravimetric Volumetric
Colour of mixture	grey		
Pot life	15 – 40 min		DIN VDE 0291-2
Solid content	100 %		
Storage	24 months in closed original containers, stored in a dry and cool but frost-free place. Ideal storage temperature: 5 – 30 °C.		

Diese Druckschrift soll Sie beraten. Die darin gemachten Angaben entsprechen unserem besten Wissen, jedoch kann eine Verbindlichkeit daraus nicht hergeleitet werden.

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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 4 h 24 h / 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	 - 72 – 82	 DIN 53505 DIN 53505
Adhesive strength in tensile shear test (after 7 days at 20 °C) Steel / Steel (blasted SA 2,5)	 7 – 10 N/mm^2	 DIN EN 1465
Surface cleavability (after curing)	none	
Temperature resistance (after 7 days at 20 °C)	-20 °C to +180 °C short times up to 280 °C (slow heating recommended)	
Chemical resistance (after 7 days; max. 3 months)	diluted alkaline diluted acids fuels ATF-oil oils grease	epple-standard

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