

**Description:**

epple 45 is an one-component, solvent-free sealing compound on the basis of an aqueous polyacrylate dispersion. It provides excellent elasticity at coeval high temperature resistance to up to 180 ° C. This sealant is stable, so that it can also be applied in vertical tracks. epple 45 is not subject to labelling requirements.

Field of application:

Sealing of seams and joints.

epple 45 is particularly suitable for joints subject to heavy vibration or alternating temperature load. It is mainly used as sealant for the joints between the cassette elements in the construction of enamelling lines, as well as in ventilation engineering and in air-conditioning technology. epple 45 is furthermore applicable as sealant for housings in mechanical engineering and for the interior fitting of production facilities.

Specific properties:

epple 45 is silicone-free.

It is paintable and paint compatible acc. to IPA-test specification 1.001.

Pursuant test report no. BM 06/10-412-41 of the ILH/Berlin, epple 45 is appropriate for the use in air conditioning plants, as it is not nutrient for micro organisms (see test VDI 6022 page 1).

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.
- The skin formation time at ambient is of 15 minutes.

Cleaning of tools:

In liquid condition with water, in cured condition with thinner epple 11.

Packaging unit:

Cartridge, plastic-tin.

Basis / characteristics

solvent-containing	aqueous	solvent-free	curing	duroplastic
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Properties of the liquid sealing compound

Property	according to Standard	Value
Viscosity	DIN EN ISO 3219	60 Pas
Density	DIN 53479	1,40 g/cm ³
Colour		grey
Solid content		80 %
Storage	24 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	according to Standard	Value
Curing ventilation time skin formation time curing / track of 5 mm	-	none 15 min 6 h at 20 ° C
Curing conditions / contact pressure	-	> 5 ° C no contact pressure required, just fixing
Hardness Shore-A Shore-D elasticity	DIN 53505 DIN 53505	- - elastic
Tensile test strength elongation	epple-standard (acc. to DIN EN ISO 527)	3,0 N 250 %
Adhesive strength in the shear tension test wood / wood steel / steel (blasted SA2,5) PA 6 / PA 6	DIN EN 1465	- 0,4 N/mm ² 0,6 N/mm ² 0,2 N/mm ²
Adhesive strength in the peel test 180 °	DIN EN 1464	-
Surface cleavability	-	none
Temperature resistance	-	- 30 ° C to + 180 ° C
Thermal conductivity	ISO 8894-1	-
Absorption of water 20 ° C / 7 days 20 ° C / 30 days 100 ° C / 30 minutes	ISO 62	-37,32 % -58,70 % -73,27 %
Chemical resistance	epple-standard	mineral oils, testing oils, antifreeze agents, alcohols, condensed water.