

## 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. Furthermore, **epple 45** is applicable as sealant for housings in mechanical engineering and for the interior fitting of production facilities.

## Specific properties:

**epple 45** is silicone-free.

Pursuant test report no. BM 08/16-02 of the ILH/Berlin, **epple 45** is appropriate for the use in air conditioning plants, as it is not nutrient for fungi or bacteria (DIN EN ISO 846).

## 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 15 – 30 min.

## Cleaning of tools:

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

## Packaging unit:

Cartridge, pail, sausage

## Basis / characteristics

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

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### Properties of the liquid sealing compound

Property	Value	In accordance with standard
Viscosity	55 – 80 Pas	DIN EN ISO 3219
Density	1.3 – 1.5 g/cm <sup>3</sup> / 20 °C	DIN 53479
Colour	grey	
Solid content	75 – 85 %	
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	Value	In accordance with standard
<b>Curing</b> Ventilation time Skin formation time Curing / track 4-6 mm	none 15 – 30 min 6 h / 20 °C	
<b>Curing conditions /            Contact pressure</b>	>5 °C / no contact pressure required, just fixing	
<b>Hardness</b> (after 7 days at 20 °C) Shore-A Shore-D	- -	DIN 53505 DIN 53505
<b>Adhesive strength in tensile shear            test</b> (after 7 days at 20 °C) Steel / Steel (blasted SA 2,5)	0.4 – 0.8 N/mm <sup>2</sup>	DIN EN 1465
<b>Surface cleavability</b> (after curing)	none	
<b>Temperature resistance</b> (after 7 days at 20 °C)	-25 °C to +180 °C	
<b>Chemical resistance</b> (after 7 days; max. 3 months)	higher alcohols (> C4) antifreeze agents mineral oils testing oils	epple-standard

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