# Technical Data Sheet epple 46

## Description:

epple 46 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 46 is not subject to labelling requirements.

## Field of application:

Sealing of seams and joints.
epple 46 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 46 is furthermore applicable as sealant for housings in mechanical engineering and for the interior fitting of production facilities.

## Specific properties:

epple 46 is silicone-free, uv- and water resistant.
epple 46 is paintable and paint compatible acc. to IPA-test specification 1.001.
Pursuant test report no. BM 07/10-41 of the ILH/Berlin, epple 46 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.
- 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.

| **Basis / characteristics** | | | | |
|---|---|---|---|---|
| solvent-containing | **aqueous** | **solvent-free** | **curing** | duroplastic |

| **Properties of the liquid sealing compound** | | |
|---|---|---|
| **Property** | **according to Standard** | **Value** |
| Viscosity | DIN EN ISO 3219 | 80 Pas |
| Density | DIN 53479 | 1,35 g/cm³ |
| Colour | | white, grey |
| Solid content | | 75 % |
| 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** | **according to Standard** | **Value** |
| Curing<br>ventilation time<br>skin formation time<br>curing / track of 5 mm | - | <br>none<br>30 min<br>12 h at 20 ° C |
| Curing conditions / contact pressure | - | > 5 ° C no contact pressure required, just fixing |
| Hardness<br>Shore-A<br>Shore-D<br>elasticity | <br>DIN 53505<br>DIN 53505 | <br>-<br>-<br>- |
| Tensile test<br>strength<br>elongation | <br>epple-standard<br>(acc. to DIN EN ISO 527) | <br>2,0 N<br>70 % |
| Adhesive strength in the shear tension test<br>wood / wood<br>steel / steel (blasted SA2,5)<br>PA 6 / PA 6 | DIN EN 1465 | -<br>1,0 N/mm²<br>0,3 N/mm²<br>0,4 N/mm² |
| Adhesive strength in the peel test 180 ° | DIN EN 1464 | - |
| Surface cleavability | - | - |
| Temperature resistance | - | - 10 ° C to + 180 ° C |
| Thermal conductivity | ISO 8894-1 | - |
| Absorption of water<br>20 ° C / 7 days<br>20 ° C / 30 days<br>100 ° C / 30 minutes | ISO 62 | -<br>-<br>- |
| Chemical resistance | epple-standard | mineral oils,<br>testing oils,<br>antifreeze agents,<br>alcohols,<br>water. |



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*This data sheet is for your information. The data supplied are according to the best of our knowledge and no liability can be inferred from them.*