

Technical Data Sheet epple 37

Sealing compounds // Adhesives // Cast resins

Description:

epple 37 is an 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 to up to max. 400 ° C.

Field of application:

Sealing of joints.

epple 37 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. Possible applications: flanges on cast iron pipes, drying plants/enamelling lines, metal chimneys, bakery equipment, gears, screw connections/surfaces (at high temperature).

Specific properties:

epple 37 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.
- The skin formation time at ambient is of 15 minutes.

Cleaning of tools:

Thinner epple 13.

Packaging unit:

Cartridge, metal-tin.

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	10 Pas (tin) 50 Pas (cartridge)
Density	DIN 53479	1,38 g/cm ³ (tin) 1,51 g/cm ³ (cartridge)
Colour		grey
Solid content		72 % (tin) 79 % (cartridge)
Storage	12 months in closed original containers, stored in a dry and cool but frost-free place (ideal storage temperature: 5 - 30 °C).	



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 18 h
Curing conditions / contact pressure	-	> 5 ° C no contact pressure required, just fixing
Hardness Shore-A Shore-D elasticity	DIN 53505 DIN 53505	- -
Tensile test strength elongation	epple-standard (acc. to DIN EN ISO 527)	18 N/mm ² 5 %
Adhesive strength in the shear tension test wood / wood steel / steel (blasted SA2,5) PA 6 / PA 6	DIN EN 1465	2,5 N/mm ² 2,5 N/mm ² 0,5 N/mm ²
Adhesive strength in the peel test 180 °	DIN EN 1464	-
Surface cleavability	-	none
Temperature resistance	-	- 30 ° C to + 400 ° C
Thermal conductivity	ISO 8894-1	-
Absorption of water 20 ° C / 7 days 20 ° C / 30 days 100 ° C / 30 minutes	ISO 62	- - -
Chemical resistance	epple-standard	ammonia vapours, ethyl alcohol, fuel, butanol, anhydrous glycerine, anhydrous glycol, fuel oil, mineral oil to up to 120 ° C, saline solutions, pure spirits of turpentine, fuel compound, water, boiling water, detergent leach, pure xylol.

11/17