

**S8 SURVEY
REPORT**

Group 8

**Electropastes
(filled casting resin systems)**

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This survey report gives a comprehensive overview of product group 8. For further information please refer to the technical reports (TR), in which the mentioned products are described in detail.

For more extensive advice, our application technology department (ATD) is at your disposal at any time.

The first column of this survey corresponds to the order in which our technical reports (TR) are filed in the report manual and/or supplements and new technical reports are to be added. Thus this survey also serves as a table of contents of product group 8.

The products mentioned in this survey do not contain substances listed in the RoHS directive 2002/95/EC, the EU End-of-Life Vehicle directive 2000/53/EC ("lead-free regulation") and the WEEE directive 2002/96/EC. Detailed information on these directives that restrict or prohibit the use of certain hazardous substances can be accessed in the "Service" section on our website www.peters.de – "Directives/restrictions of substances".

1. Electropastes on epoxy resin basis (EP)

1.1 General characteristics

- cold and/or thermo curing 2-pack casting resins enriched with specific fillers with good thermal conductivity, partly of liquid and partly of mastic-like consistency
- solvent-free, thus no attack of solvent-sensitive plastics, no unpleasant odour caused by solvents
- excellent resistance to numerous chemicals, acids, oils, solvents, moisture and water
- outstanding adhesion
- very good dielectric properties
- high mechanical strength and resistance
- very good thermal conductivity
- for use in the electronics, electrotechnology and electrical engineering industries to seal and pot electronic components and all types of coils that can be subjected to the comparatively low heat generation and shrinkage pressure for epoxy resin systems.

1.2 Product-specific characteristics

Product (series)	Special properties
Electropastes of the series EP 8000 , brown EP 8012 EP 8020 N 21 EP 8021 EP 8026 EP 8085 NV EP 8085 HV	<ul style="list-style-type: none"> • already cure at room temperature • thermal class B = 130 °C [266 °F] based on DIN IEC 60085 • EP 8012: can be applied with a putty knife, due to its pasty consistency is used as an electro-mastic, pot life approx. 30 min • EP 8020 N 21: of high viscosity, thus minimum material loss (due to dripping) when used to fill windings, pot life approx. 1 h • EP 8021: of high viscosity, thus minimum material loss (due to dripping) when used to fill windings, only slight heat generation during curing, pot life approx. 2.5 h • EP 8026: of low viscosity, thus suitable for use on component geometries that are difficult to access, particularly suited for impregnating individual layers of layered coil windings, pot life approx. 30 min • EP 8085 NV: of low viscosity (Index NV), thus suitable for use on component geometries that are difficult to access, particularly suited for impregnating individual layers of layered coil windings, exceptionally good thermal conductivity, only slight heat generation during curing, pot life approx. 3.5 h • EP 8085 HV: of high viscosity (Index HV), thus minimum material loss (due to dripping) when used to fill windings, exceptionally good thermal conductivity, only slight heat generation during curing, pot life approx. 2.5 h

Product (series)	Special properties
Electropastes of the series EP 8100 EP 8161, blue EP 8171/66, yellowish	<ul style="list-style-type: none"> • exclusively thermo curing • particularly suitable for potting coil cores, e.g. lifting magnet coils, and windings (transformers) that are subject to high thermal stress • EP 8171/66 is considerably higher in viscosity than EP 8161 and exhibits a higher thermo-form resistance • long pot life: EP 8161: 12 – 18 h EP 8171/66: approx. 8 h • thermal class F = 155 °C [311 °F] based on DIN IEC 60085 • by tempering EP 8171/66 for 10 h at 200 °C [392 °F] a continuous operating temperature resistance of >180 °C [356 °F] can be achieved

Any questions?

We would be pleased to offer you advice and assistance in solving your problems. Free samples and technical literature are available upon request.

The above information as well as advice given by our Application Technology Department whether in verbal or written form or during product evaluations is provided to the best of our knowledge, but must be regarded as non-binding recommendations, also with respect to possible third-party proprietary rights.

The products are exclusively intended for the applications indicated in the corresponding technical data sheets.

The advisory service does not exempt you from performing your own assessments, in particular of our material safety data sheets and technical information sheets, and of our products as regards their suitability for the applications intended. The application, use and processing of our products and of the products manufactured by you based on the advice given by our Application Technology Department are beyond our control and thus entirely your responsibility. The sale of our products is effected in accordance with our current terms of sale and delivery.

Lackwerke Peters GmbH + Co KG
Hooghe Weg 13, 47906 Kempen

Internet: www.peters.de

E-Mail: peters@peters.de

Phone: 0049-21 52-20 09-0

Fax: 0049-21 52-20 09-70