

# Special Resins

for foundry models, tools, patterns, gauges and master models.

Accessories:

release agents, fillers, core and reinforcing materials and miscellaneous tooling aids

# ebalta

## Kunststoff GmbH

Erlbacher Straße 100  
91541 Rothenburg/Tauber

## Technical Data Sheet

### Heat resistant and conductive paste system

# ebalta

 PS 07-1/TM

### General remarks

**ebalta PS 07-1/TM** is a two component epoxy resin system, containing aluminium, glass fibres etc. that hardens at room temperature. **PS 07-1/TM** requires mechanical mixing and can be applied to a thickness of 30 to 40 mm in one operation. It should be applied to a second gel coat or coupling coat whilst still wet. **PS 07-1/TM** has good conductivity and compressive strength and after post curing has a temperature resistance of 160 °C. **PS 07-1/TM** is particularly suitable for heating/cooling pipe installation in high temperature tooling.

### Processing

The **ebalta PS 07-1/TM** backfill paste which contains aluminium granules, powder and chopped glass strands requires mechanical mixing.

Small amounts may be mixed using a spiral mixer and a power drilling machine.

The mixed paste should be applied directly onto the second gel coat or the coupling paste KP 7-1/TM wet in wet and pressed firmly down.

### Features

Heat resistant  
Good conductivity  
Good strength

### Application

PU-foaming tools  
Polyester press tools  
Fibre or carpet press tools  
Cooling or heating pipe installation

### Physical Properties

Colour Resin :	<b>PS 07-1</b>	alu
Hardener:	<b>TM</b>	brown-clear
Mixing-viscosity	mPas	: paste
Specific gravity	kg/dm <sup>3</sup>	: 1,9
Hardness-Shore D	bei 20 °C	: 87
Compressive strength	N/mm <sup>2</sup>	: 100 - 105
Tensile strength	N/mm <sup>2</sup>	: 20 - 25
Flexural strength	N/mm <sup>2</sup>	: 45 - 50
E-modulus	N/mm <sup>2</sup>	: 7000 - 7500
Temperature resistance (Tg)		
4 h at 40 °C + 4 to 10 h at 60 °C		: 95
4 h at 40 °C + 4 to 10 h at 60 °C + 4 h at 100 °C		: 139
4 h at 40 °C + 4 to 10 h at 60 °C + 4 h at 100 °C + 4 h at 135 °C		: 175

### Information for use

Mixing ratio:	<b>100</b> p.b.w. Resin	<b>PS 07-1</b>
	<b>6</b> p.b.w. Hardener	<b>TM</b>
Pot life 200 g at 20°C:	75	min.
Curing time (de-mouldable)	24 - 36	hrs.
Application and curing temperature:	18 - 25	°C
Storage life at RT in closed containers:	½	year
Filled substances should be thoroughly mixed before removal		
Close containers at once after use		

### Packing sizes:

Unit:	<b>PS 07-1</b>	25,000 kg
	<b>TM</b>	8,000 kg

### Note:

The instructions and recommendations are given in good faith, and are based on long experience and careful tests. But these recommendations are without guarantee, since the conditions of use are beyond our control.

**ebalta** Kunststoff GmbH . Erlbacher Str. 100 . 91541 Rothenburg ob der Tauber . Telefon (09861) 7007-0 . Telefax 7007-77  
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