

## ■ Special products Thermocasting #2573

### Product description

DIAMANT Thermocasting #2573 is a high temperature 2 component inorganic based potting compound. The product is solvent free and cold or warm curing. The product has no hazardous ingredients and has a variable mixing ratio.

### Typical applications

- Embedding of heating elements and thermal sensors
- Puttying out refractory bricks
- Pouring of resistance wires
- Setting without firing
- Filler for powder coating application

### Characteristics

- Temperature resistance up to 1100°C
- Solvent free system

### Processing

The surfaces to be processed must be free of oil and grease, dry and clean. Do not process below 5°C. Diamond Thermocast #2573 is prepared in the ratio component A : component B = 3:2 parts by weight to obtain a brushable viscosity. It can also be mixed variably. This could lead to a delayed fixing time (curing time).

### Product data condition of delivery

Hue Comp. A - resin	light grey
Comp. B - hardener	colorless
Density Comp. A - resin	0,71 g/cm <sup>3</sup>
Comp. B - hardener	1,34 g/cm <sup>3</sup>
Mixing ratio weight	(A:B) 3:2
Pot life	2-3 hours at 80°C
Curing Fixing time at 20° C	48 hours
Fixing time at max. 80° C	2-3 hours

Processing temperature

5°C to 30°C

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## Product data outreacted product

Compressive strength

28 N/mm<sup>2</sup>

Strength

70

Tensile strength

3 N/mm<sup>2</sup>

E-Modul

8500 N/mm<sup>2</sup>

Thermal conductivity

0.11

Temperature resistance (permanent)

1100 °C

Shrinkage

0.5

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## Storage / Shelf Life

Store in original, unopened container in a dry place at room temperature (+10°C to +25°C). Shelf life 24 months. Protect from direct sunlight. Higher temperatures reduce the shelf life.

## Mixing process

The product can be mixed variably. A trowel-compatible consistency at a mixing ratio of 3:2. Loosen component A before use. Shake component B before use. Make sure that the mixing ratio is homogeneous.

## Description of use

After mixing, process the material immediately.

## Disposal

Unused residual material from the cans can be disposed of normally when mixed in the correct ratio and fully cured (EAKV 170203). Unmixed material must be disposed of as chemical waste (EAKV 080111). When booking the Diamant Service Team, waste will be disposed of by us. Further information can be found in the service data sheet.

## safety data sheet

Please read the appropriate safety data sheet before processing the product. Material Safety Data Sheets are available on a daily basis upon request via [info@diamant-polymer.de](mailto:info@diamant-polymer.de) or by phone +49-2166-98360. DIAMANT guarantees the product properties as long as they are stored and used according to the specifications listed here. DIAMANT does not assume any responsibility for the processing of the material. Our technicians will be happy to answer any further questions you may have.

## Accessories / processing equipment

#1354 Release agent, liquid #1355 Release agent, spray 500 ml #1417 Cleaner, liquid #1534 Cleaner, spray 500 ml #78 Spatula, DIAMANT green #78-1 Japanese spatula 10 x 10 cm #0789 Mixing propeller

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