

## ■ Hydrometal blue-grey #0084

### Product description

DIAMANT Hydrometal is used for repairing and levelling defects on metal elements/components that are exposed to high temperatures. Cured DIAMANT Hydrometal withstands temperatures up to ~ 650°C, can be machined like metal and has a very good metal-like character, especially when fine machining by grinding or polishing.

### Characteristics

- Simple application: DIAMANT Hydrometal is a combination of different metal fillers with a powdery polymer, which is mixed with water to a paste-like consistency.
- Fast curing: Applied in layers of ~ 2 mm, DIAMANT Hydrometal cures within ~ 2 hours.

### Typical applications

- Blowhole repair
- Small, quick repairs
- Surface repairs

### Chemical resistance

For questions about chemical resistance, please contact our technicians.

### Available in the following versions

ARTICLE	PRODUCT	DESCRIPTION
#0084	Hydrometal blue-grey	5 kg, 10 kg
#0085	Hydrometal light-grey (for steel)	5 kg, 10 kg
#0086	Hydrometal black-grey (for cast iron)	5 kg, 10 kg

### Product data delivery state

PROPERTIES	VALUE
Colour	Blue-grey
Bulk density	1,8 g/cm <sup>3</sup>
Shelf life	12 months
Mixing ratio	(powder:water) 4:1
Curing (at 20°C ambient temperature)	2 hours
Maximum layer thickness	2 mm



## Product data reacted

PROPERTIES	VALUE
Shore D hardness	80
Density	2,2
Temperature resistance (permanent)	650°C

## Storage / shelf life

DIAMANT Hydrometal can be stored almost indefinitely if stored in its original containers in a cool, dry place.

## Processing / preparation

For optimum adhesion of Hydrometal, we recommend degreasing the surface before application. We recommend using DIAMANT Cleaner #1417 for this purpose.

## Application

The Hydrometal powder is mixed with water in a ratio (powder:water) of 4:1 using a mixing propeller (#0789).

We recommend using a second bucket for this. For larger containers of 10 kg or more, we recommend a commercially available spiral stirrer (whisk) for mixing. The paste is then applied with a spatula (we recommend: #78-1). Up to a layer thickness of approx. 2-3 mm, rapid hardening takes place. The applied filler hardens within 2 hours, subsequent layers should be applied after 1-1.5 hours at an ambient temperature of 20°C to ensure adhesion between the individual layers.

Curing takes place after 2 hours at +20°C ambient temperature.

## Waste disposal

Do not allow to enter the sewerage system or bodies of water. Waste and containers must be disposed of in a safe manner. Disposal in accordance with Directive 2008/98/EC on waste and hazardous waste. Suggested list of waste codes/waste designations according to EWC 080111\* Waste paint and varnish containing organic solvents or other hazardous substances \*Hazardous waste according to Directive 2008/98/EC (Waste Framework Directive). Non-contaminated and completely emptied packaging can be recycled. Containers that have not been properly emptied are hazardous waste.

## Safety data sheet

Please read the relevant safety data sheet before using the product. Safety data sheets are available on a daily basis on request via [info@diamant-polymer.de](mailto:info@diamant-polymer.de) or by telephone on +49-2166-98360.

DIAMANT guarantees the product properties as long as they are stored and used in accordance with the specifications listed here. DIAMANT accepts no responsibility for the processing of the material. Our technicians will be happy to answer any further questions you may have.

## Disclaimer

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The technical data listed here was determined under laboratory conditions and verified by quality assurance processes on the day of product manufacture. We reserve the right to make changes without prior notice. The customer is responsible for verifying the up-to-dateness of the data and should contact DIAMANT before ordering the material. Application, use and processing are beyond our control and are therefore the sole responsibility of the purchaser. Should liability nevertheless arise, this is limited to the value of the goods supplied by us and used by you. We guarantee the flawless quality of our products in accordance with our general terms and conditions of sale and delivery. All technical data vary depending on the loads and conditions of use. We will provide specific application data on request in each individual case.