

liquid metals Iron #0077

Productdescription

Liquid Metal Iron is a one-component, ready-to-use metal filler, filled with iron filler materials. The viscous special putty can be applied with a spatula or a lancet. After curing, the metal spatula shows an excellent alignment with the corresponding base material. Particularly effective is the use for serial repairs to minor surface defects.

Thickened material can be diluted by adding Diamant Thinner (#0079) (not possible with tube packaging), so that it can be used again. The Diamant Thinner (#0079) can also be used to change the consistency of liquid metal Alu #0076 and liquid metal steel #0078. As a result the fillable material becomes more spreadable or pourable.



Characteristics

- Versatile application due to individually adjustable viscosity by diluting
- Temperature resistant up to +200°C
- Ready-to-use and easy application
- Good chemical resistance
- Contains selected and high-quality fillers
- Weather resistant
- Resistant to hot liquids

Typical Applications

- Small, fast repairs
- surface protection
- Repair of pipes, containers, gutters, radiators, castings, coolers, etc.

Available in the following versions

ARTIKLE	PRODUCT	DESCRIPTION
#0077	liquid metals Iron	200ml, 500g, 1kg, special sizes on request

Product data delivery and processing status

PROPERTIES	VALUE
Colour	grey
Storability	tins, pots and tubes 6 months at 10-20°C, 3 months at 10-20°C
Curing Surface drying	The curing takes place within 2 hours at +20°C room temperature.

Product data, cured

PROPERTIES	VALUE
Colour	grey
Temperature resistance (permanent)	200°C
Dry film thickness	3 mm

Storage / shelf life

Store dry, between 10-20°C in unopened original container. Avoid direct sunlight. The shelf life is 6 months for tins, cans and tubes and 3 months for syringes.

Preparation

For optimum adhesion of iron cement, we recommend degreasing the surface before application. We recommend the use of DIAMANT cleaner #1417 for this purpose.

Application

The areas to be repaired should be clean and dry. Deeper defects can be repaired by applying several coats, each of which should be cured before applying the next. Maximum layer thickness: 2mm-3mm. The applied metal filler hardens within 2 hours. After this time, the above-mentioned subsequent layers can be applied in the case of multi-layer applications. Curing takes place within 2 hours at +20°C room temperature. Reseal cans, jugs well after use. Diamond liquid metal aluminium and diamond thinner are combustible. Flame point below +21°C/70°F.

Curing

At 20°C approx. 120 minutes / 2 hours.

Disposal

Unused residual material from the cans can be disposed of normally if it has been mixed in the correct mixing ratio and has fully cured (EWC 170203). Unmixed material must be disposed of as chemical waste (EWC 080111). When booking the Diamant service team, waste will be disposed of by us.

Safety Data Sheet

Please read the relevant safety data sheet before processing the product. Safety data sheets are available on a daily basis on request via 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.

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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.