Liquid metal Iron
Product number #0077

Product description
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 made ready for use again 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 Iron. As a result, the spachtelbare material spreadable, or pourable.

Characteristics
• Versatile application through individually customizable viscosity (by dilution)
• Temperature resistant up to 200°C
• Ready to use and easy to use
• Good chemical resistance
• Contains selected and high quality fillers
• Weatherproof
• Resistant to hot liquids

Typical Application
• Small, fast repairs
• Surface protection
• Repairs to pipes, containers, gutters, radiators, castings, coolers etc.

Package size
Cans / Jugs: 1.000g
Tube: 500g
Syringe: 20ml

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

Technical data

<table>
<thead>
<tr>
<th>Technical data</th>
<th>Value</th>
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<tbody>
<tr>
<td>Maximum layer thickness</td>
<td>~ 2-3 mm</td>
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<tr>
<td>Temperature resistance [°C]</td>
<td>up to +200°C</td>
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<tr>
<td>Curing time at +20°C [Min.]</td>
<td>~ 120</td>
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All material values are average values and vary based on the mixing ratio, the amount of material and the environmental conditions. The material values given here are based on standard conditions (STP) of +20°C (68°F) and 1013mbar.

Important note
Please observe the instructions in the safety data sheet.
Processing / Preparation
For optimum adhesion of Liquid metal Iron, we recommend degreasing the surface before use. For this we recommend the use of Diamant Cleaner (#1417).

Application
The areas to be repaired should be clean and dry. Deeper defects can be repaired by repeated application, whereby the individual layers should be cured before the next layer is applied. Maximum layer thickness: 2mm - 3mm

The applied metal spatula cures within 2 hours. After this time, the above-mentioned follow-up layers can be applied, in the case of multi-layer applications. The curing takes place within 2 hours at + 20 °C room temperature.

Cans and jugs must be securely closed again after use Diamant Liquid metal Iron and Diamant thinner are flammable.
Flash point below + 21 °C / 70 °F.

Disposal
Unused residual material from the cans, if mixed in the correct mixing ratio and completely cured, can be disposed of normally (EAKV 170203). Unmixed material must be disposed of as chemical waste (EWC 080111).

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The listed technical data were determined under laboratory conditions and verified by quality assurance processes at the day of production. Changes are reserved and can be implemented without previous information. The customer is responsible for the verification of data topicality and should be requested before the material ordering at DIAMANT. Application, use and processing of the products happen outside of our control options and therefore lie entirely in the area of responsibility of the customer. Should nevertheless a liability come into question so is this liability limited to the value of the items delivered and used by you. We guarantee the perfect quality of our products according our general sale and delivery conditions. All technical data can differ depending on burden and operating conditions. Specific application data will be provided upon request in every individual case.

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