**Technical data sheet**

**Iron Cement**

Product number #0099

**Product description**
Iron cement is a physiologically harmless, highly temperature-resistant 1-component special putty for application temperatures up to +1600 °C. After the hardening of iron cement, it protects molds against hot, abrasive cast steel. Furthermore, iron cement is excellently suited for the sealing of continuous mold casting plants and as a refractory repair putty for furnaces, etc.

**Characteristics**
- High temperature resistance up to +1600°C
- Fireproof
- Ready to use and easy to use
- Physiologically harmless

**Typical application**
- Wear protection on cast steel molds
- Joint fillers on firebricks and chimney liners

**Package size**
500g, 1.000g

**Storage / shelf life**
Store dry in the unopened original container, between 10°C - 30°C. Avoid direct sunlight. The shelf life is 24 months.

**Important note**
Please observe the instructions in the safety data sheet.

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### Technical data

<table>
<thead>
<tr>
<th>Technical data</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consistency</td>
<td>pasty</td>
</tr>
<tr>
<td>Maximum layer thickness</td>
<td>~ 2-3 mm</td>
</tr>
<tr>
<td>Temperature resistance</td>
<td>up to +1600°C</td>
</tr>
<tr>
<td>Curing time at +20°C [Min.]</td>
<td>~ 120</td>
</tr>
<tr>
<td>Curing time at +30°C [Min.]</td>
<td>~ 60</td>
</tr>
<tr>
<td>Curing time at +50°C [Min.]</td>
<td>~ 45</td>
</tr>
</tbody>
</table>

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 (68ºF) and 1013mbar.
**Processing / Preparation**
For optimum adhesion of iron cement, we recommend roughening of the surface by sanding and degreasing it. For this we recommend the use of DIAMANT cleaner (# 1417).

**Application**
The ready-to-use paste must be applied with a spatula. Up to a layer thickness of approx. 2-3 mm, rapid curing takes place. The applied spatula cures within 2 hours. After this time follow-up layers can be applied. Curing takes place in approx. 2 hours at + 20°C room temperature.

**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). When booking the Diamant service team waste is disposed of by us.