Betofix HQ6

Grouting concrete
Corresponds to DAFStb Guideline: “Production and Use of Cement Bound Poured Concrete and Poured Mortar”

Range of use
- For use indoors and outdoors
- Packing and mounting mortar for connecting machines, iron and concrete structures as well as wood elements
- Filling of joints between pre-fabricated elements and cellar slabs
- For embedding supports in concrete in sleeve foundations
- Reprofiling of concrete elements according to the SIB Guideline

Property profile
Betofix HQ6 is a cement bound, chloride-free, factory-mixed, dry mortar with mineral aggregates that is ready to use after mixing with water. It can be produced with all conventional positive mixers.

The grout material shows adjusted high early and ultimate strength in connection with very good flow properties. The mortar adheres well, is water impermeable and vapour diffusion-open.

Characteristic data of the product

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Largest grain</td>
<td>6 mm</td>
</tr>
<tr>
<td>Water requirements</td>
<td>9.6 %</td>
</tr>
<tr>
<td>Slump after 5 min.:</td>
<td>≥ 700 mm</td>
</tr>
<tr>
<td>Slump after 30 min.:</td>
<td>≥ 650 mm</td>
</tr>
<tr>
<td>Slump after 60 min.:</td>
<td>≥ 650 mm</td>
</tr>
<tr>
<td>Slump after 90 min.:</td>
<td>≥ 600 mm</td>
</tr>
<tr>
<td>Slump after 240 min.:</td>
<td>≥ 500 mm</td>
</tr>
<tr>
<td>Working time at 20 °C:</td>
<td>approx. 00 min.</td>
</tr>
<tr>
<td>Degree of swelling after 24 h:</td>
<td>+ 0.5 % by volume</td>
</tr>
<tr>
<td>Fresh mortar density:</td>
<td>approx. 2.3 kg/dm³</td>
</tr>
<tr>
<td>Compressive strength on prisms After 24 h:</td>
<td>10 – 24 N/mm²</td>
</tr>
<tr>
<td>After 7 days:</td>
<td>≥ 40 N/mm²</td>
</tr>
<tr>
<td>After 28 days:</td>
<td>≥ 60 N/mm²</td>
</tr>
<tr>
<td>After 90 days:</td>
<td>≥ 65 N/mm²</td>
</tr>
<tr>
<td>Exposure class assignment in accordance with</td>
<td>XS1 – XS2; XF1 – XF4*</td>
</tr>
<tr>
<td>EN 206-1/DIN 1045-2:</td>
<td>XA1 – XA2; XM1* – XM2*</td>
</tr>
<tr>
<td>Moisture class assignment:</td>
<td>WO, WF, WA, WS</td>
</tr>
<tr>
<td>Fire class (EN 13501):</td>
<td>A1</td>
</tr>
</tbody>
</table>

Classification according to the DAFStb Guideline VeBMR:
- Consistency class: \( f_2 \)
- Schwindklasse: SKVM I
- Frühfestigkeitsklasse: A
- Druckfestigkeitsklasse: C 100/115

*Exposure classes XM1 – XM3 and XF4 are excluded from the VeBMR Guideline.

The values above represent typical characteristic data of the product and are not to be understood as product specifications.
**Substrate**

The substrate must be clean, sound and pre-wet to saturation. Remove standing water. Remove loose material and other substances that could interfere with adhesion as well as cement grout by sandblasting, scraping or by similar means. The substrate must also be sufficiently rough. The grains close to the surface must be exposed. The pull-off strength of the substrate must be > 1.5 N/mm² on average.

**Directions**

Pour 2.4 l of water into a clean container (mortar tub), then add 25 kg Betofix HQ6. Mix thoroughly with a mixer / positive mixer for approx. 3 minutes. Allow to mature for 1 minute, then mix again for 1 minute at slow speed until a lump-free consistence proper for working has been achieved.

The mortar is normally poured without interruption from just one side or corner; in difficult cases it can also be compacted.

The material can be applied in layers from 15 - 150 mm thick.

**Notes**

Do not use if the temperature of the air, substrate and building material is below +3 °C or above +30 °C. The characteristic data given for the product was determined under laboratory conditions in accordance with DAfStb Guideline VeBMR.

Protect the exposed surfaces of the fresh mortar from extreme weather loads such as heat, wind and frost, by covering (e.g. with plastic sheets) for at least 3 days.

When alcaline building materials come in contact with non-ferrous metals (e.g. aluminium, zinc, copper), they may have a dissolving effect.

Low in chromates in accordance with Directive 2003/53/CE.

**Possible system products**

- Betofix KHB (1087)
- Remmers OS systems

**Tools, cleaning**

BEBA mixer or mixing paddle.

Due to the mixing time, a batch mixer should be used when using a mixing pump.

Clean tools with water while the material is still fresh.

**Packaging, application rate, shelf-life**

**Packaging:**

25 kg paper bags

**Application rate-dry mortar:**

Approx. 2.1 kg/l void

**Shelf-life:**

Approx. 9 months stored dry in closed bags

---

The statements above are compiled from our field of production and according to the latest technological developments and application techniques. Since application and working are beyond our control, no liability of the producer can be derived from the contents of this information sheet. Any statements made beyond the contents of this information must be confirmed in writing by the producer.

In all cases, our general conditions of sale are valid. With the publication of this Technical Information Sheet all previous editions are no longer valid.

Remmers (UK) Limited Crawley United Kingdom
Tel: +44 (0) 1293 594 010
Fax: +44 (0) 1293 594 037
www.remmers.co.uk