FLOWCRET 1-10 EXPRESS
Fast-setting, self-leveling, polymer modified cementitious screed

**Description**

Fast-setting, self-leveling cementitious mortar for leveling floor substrates, enriched with polymer components (resins). It features high mechanical strength, superb adhesion to the substrate, excellent workability, fast-hardening and drying and low shrinkage. It provides a smooth, flat and durable final surface, ready to be covered in a very short time with any further finishing layer. Suitable for layers 1-10 mm thick.

It is classified as a screed material CT-C40-F7-AR0.5 (grey) and CT-C30-F7-AR6 (white) according to EN 13813.

**Fields of application**

Ideal for fast smoothening and leveling of concrete floors, cement screeds, mosaic floors etc. that are going to be covered with all kinds of tiles, carpet, parquet, vinyl tiles etc. It is suitable only for interior use. It may be left as a final topping layer in basements, attics, home storerooms etc. Suitable for leveling floors with underfloor heating systems.

FLOWCRET 1-10 EXPRESS may be used as a final layer in residential areas, provided that ISOMAT BI-100 will be applied on its surface to increase the wear resistance, the resistance to detergents and to reduce water absorption.

Furthermore, FLOWCRET 1-10 EXPRESS (White) can be mixed with pigments based on iron oxides, in order to have a colored final surface.

**Technical data**

FLOWCRET 1-10 EXPRESS Grey

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>cementitious powder</td>
</tr>
<tr>
<td>Color</td>
<td>grey</td>
</tr>
<tr>
<td>Water demand</td>
<td>5.0-5.5 l/25 kg bag</td>
</tr>
<tr>
<td>Application thickness</td>
<td>from 1mm to 10mm</td>
</tr>
</tbody>
</table>

FLOWCRET 1-10 EXPRESS EXPRESS

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<thead>
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<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Form</td>
<td>cementitious powder</td>
</tr>
<tr>
<td>Color</td>
<td>white</td>
</tr>
<tr>
<td>Water demand</td>
<td>6.0-6.5 l/25 kg bag</td>
</tr>
<tr>
<td>Application thickness</td>
<td>from 1mm to 10mm</td>
</tr>
<tr>
<td>Bulk density of dry mortar</td>
<td>1.40 ± 0.15 kg/l</td>
</tr>
<tr>
<td>Bulk density of fresh mortar</td>
<td>2 ± 0.10 kg/l</td>
</tr>
</tbody>
</table>
Compressive strength acc. to EN 13892-2:
- 24 hours: 13.50 ± 1.00 N/mm²
- 7 days: 17.50 ± 2.00 N/mm²
- 28 days: 34.50 ± 3.00 N/mm²

Flexural strength acc. to EN 13892-2:
- 24 hours: 4.00 ± 0.50 N/mm²
- 7 days: 4.50 ± 1.00 N/mm²
- 28 days: 9.00 ± 2.00 N/mm²

Bond strength acc. to EN 13892-8:
- 28 days: 1.30 ± 0.30 N/mm²

Wear resistance acc. to EN 13892-4 (BCA):
- 28 days: AR6

Setting shrinkage acc. to EN 13872:
- 28 days: 0.40 ± 0.20 mm/m

Reaction to fire: Euroclass A1

Walkability: after 4 h

Successive layer (tiles): after 24 h

Pot life: 30-40 min at +20°C

As soon as the product has self-levelled it must be rolled immediately with a suitable spiked roller to release all the air retained within its mass. For greater layer thickness, up to 30 mm, it is recommended to use FLOWCRET 3-30 EXPRESS.

### Consumption
Approx. 1.65 kg /m²/mm of layer thickness.

### Packaging
FLOWCRET 1-10 EXPRESS is supplied in 25 kg paper bags.

### Shelf-life - Storage
12 months from production date if stored in original, unopened packaging, in places protected from moisture and frost.

### Remarks
- During application and initial setting/hardening of FLOWCRET 1-10 EXPRESS the surface must be protected from quick water loss due to the high temperature, U.V. radiation or wind.
- Do not add cement, gypsum, lime or other binders to the FLOWCRET 1-10 EXPRESS mix.
- Before the installation of parquet or vinyl tiles is necessary to measure the moisture content with a moisture meter.
- Temperature during application should be at least +5°C.
- Mixture that has started to harden should not be used.
- FLOWCRET 1-10 EXPRESS contains cement and reacts as alkaline with water, so it is classified as irritant.
- Consult the usage risks and safety advice written on the bag.

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The technical information and instructions supplied in this datasheet are based on the knowledge and experience of the Department of Research and Development of our company and on results from long-term applications of the product in practice. The recommendations and suggestions referring to the use of the product are provided without guarantee, since site conditions during the applications are beyond the control of our company. Therefore the user is responsible for confirming that the chosen product is suitable for the envisaged application. The present edition of this technical datasheet automatically cancels any previous one concerning the same product.
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