

## Fast-setting, self-leveling, polymer-modified compound

### Description

FLOWCRET 3-30 EXPRESS is a fast-setting, self-leveling, polymer-modified compound, used for flooring applications. It forms a smooth and durable surface. Suitable for layers 3-30 mm thick.

It is classified as CT-C40-F10-AR2 according to EN 13813.

### Fields of application

- Smoothing and leveling of surfaces from concrete, screed, mosaic, ceramic tiles before laying finishing materials like ceramic tiles, carpets, parquet, vinyl tiles, marbles, natural stones etc.
- As a final floor overlay in basements, attics, warehouses etc.
- Suitable for floors with underfloor heating.
- Ideal for fast applications due to its fast setting property.
- Appropriate for internal applications.

### Technical data

|                                 |                        |
|---------------------------------|------------------------|
| Form:                           | cementitious powder    |
| Color:                          | grey                   |
| Water demand:                   | 5,75 – 6,0 l/25 kg bag |
| Bulk density of dry mortar:     | 1,26 ± 0,20 kg/l       |
| Bulk density of fresh mortar:   | 2,04 ± 0,20 kg/l       |
| Temperature of substrate:       | +5°C up to +25°C       |
| Walkability :                   | after 4 hours          |
| Successive layer:               | after 24 hours         |
| Adhesive strength: (EN 13892-8) | >2,0 N/mm <sup>2</sup> |

Compressive strength (EN 13892-2):

- After 24 hours: 17,00 ± 2,00 N/mm<sup>2</sup>
- After 7 days: 33,00 ± 2,00 N/mm<sup>2</sup>
- After 28 days: 45,00 ± 2,00 N/mm<sup>2</sup>

Flexural strength (EN 13892-2):

- After 24 hours: 4,00 ± 1,00 N/mm<sup>2</sup>
- After 7 days: 5,00 ± 1,00 N/mm<sup>2</sup>
- After 28 days: 12,00 ± 2,00 N/mm<sup>2</sup>

Wear resistance BCA: 165 ± 30µm, AR2 (EN 13892-4)

Setting shrinkage: 0,35 ± 0,20 mm/m (EN 13872)

Initial setting time: 55-80 min

Final setting time: 65-95 min

Pot life: 30-45 min at +20°C

### Directions for use

#### 1. Substrate

The substrate must be dry, statically sufficient and also free of dust, grease, loose particles etc.

#### 2. Priming

2.1. Absorptive surfaces such as concrete or screeds should be primed with the acrylic primer UNI-PRIMER. Product application follows once the primer has completely dried out (approx. after 2 hours).

Primer consumption: 200-300 g/m<sup>2</sup>.

2.2 Smooth or non-absorptive surfaces should be primed with the adhesion promoter ISOMAT AK-PRIMER. FLOWCRET 3-30 EXPRESS can be applied after an hour and while the primer is still sticky.

Primer consumption: 100-200 g/m<sup>2</sup>.

# FLOWCRET 3-30 EXPRESS



## 2. Application

FLOWCRET 3-30 EXPRESS is gradually added into 5,75-6,0 l of water under continuous stirring, until a homogeneous, lump free, fluid mass is formed. The mixture is left about 3 minutes to settle and is then stirred again. A low speed electric mixer (approx. 300 rpm) is recommended for mixing. The mortar is poured onto the primed substrate in one layer and is spread to desired thickness with a large metal notched trowel. 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.

### Consumption

Approx. 1,65 kg /m<sup>2</sup>/mm of layer thickness.

### Packaging

FLOWCRET 3-30 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

- When applying the product, on floors with underfloor heating respect the expansion-contraction joints every 25-30 m<sup>2</sup> of surface, filled with the appropriate elastic materials.
- During application and initial setting/hardening of FLOWCRET 3-30 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 3-30 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 3-30 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.

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.



# FLOWCRET 3-30 EXPRESS



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**EN 13813 CT-C40-F10-AR2**

Cementitious screed material for use internally  
in buildings

Reaction to fire: A1<sub>fl</sub>

Release of corrosive substances: CT

Water permeability : NPD

Water vapour permeability: NPD

Compressive strength: C40

Flexural strength: F10

Wear resistance BCA: AR2

Sound insulation: NPD

Sound absorption: NPD

Thermal resistance: NPD

Chemical resistance: NPD

**ISOMAT S.A.**

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