

FLOWCRET 3-30 EXPRESS

Fast-setting, self-leveling, polymer-modified cementitious screed

Description

FLOWCRET 3-30 EXPRESS is a fast-setting, self-leveling, polymer-modified cementitious screed used for flooring applications. Features high mechanical strength, superb adhesion to the substrate, excellent workability, fast hardening and drying and low shrinkage. Forms a smooth, level and durable surface that can be promptly coated. Suitable for layers 3-30 mm thick.

Certified according to EN 13813 and classified as CT-C30-F7-AR0.5. CE marked.

Fields of application

- Smoothing and leveling of concrete, screeds, terrazzo and surfaces covered with ceramic tiles before installing floor coverings, such as tiles, moquettes, plastic or wooden floors, marble, natural stone, etc.
- As a final floor coating in basements, attics, warehouses etc.
- Suitable for floors with underfloor heating.
- Ideal for fast applications due to its fast-setting property.
- Appropriate for indoor applications.

Technical data

Form:	cementitious powder
Color:	grey
Water demand:	5.75-6.0 l/25 kg bag
Bulk density of dry mortar:	1.35 ± 0.10 kg/l
Bulk density of fresh mortar:	2.05 ± 0.10 kg/l
Temperature of substrate:	+5°C up to +25°C
Walkability:	after 2 hours
Overcoating:	after 24 hours
Compressive strength (EN 13892-2):	
• After 4 hours:	≥ 10.0 N/mm ²
• After 24 hours:	≥ 20.0 N/mm ²
• After 7 days:	≥ 25.0 N/mm ²
• After 28 days:	≥ 30.0 N/mm ²

Flexural strength (EN 13892-2):

- After 4 hours: ≥ 5.0 N/mm²
- After 24 hours: ≥ 6.0 N/mm²
- After 7 days: ≥ 6.5 N/mm²
- After 28 days: ≥ 7.0 N/mm²

Adhesive strength (EN 13892-8):

- After 28 days: > 2.0 N/mm²

Abrasion resistance BCA (EN 13892-4):

- After 28 days: ≤ 50 µm, AR0.5

Abrasion resistance Böhme (EN 13892-3):

- After 28 days: A6

Setting shrinkage (EN 13872):

- After 28 days: max 0.45 mm/m

Pot life: 30-35 min at +20°C

Directions for use

1. Substrate

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

2. Priming

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

Primer consumption: 200-300g/m².

2.2 Smooth or non-absorbent surfaces should be primed with the adhesion promoter ISOMAT SUPERGRUND. FLOWCRET 3-30 EXPRESS can be applied once the primer has completely dried (approx. after 1-2 hours).

Primer consumption: 100-200g/m².

2. Application

FLOWCRET 3-30 EXPRESS is gradually added to 5.75-6.00l of water under continuous stirring until a homogeneous, lump-free, low-viscosity 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 cement mortar is poured onto the primed substrate in one layer and is spread to desired thickness with a large metal notched trowel.

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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. 1.65kg/m²/mm of layer thickness.

Packaging

25kg paper bags.

Shelf life – Storage

12 months from production date if stored in original, unopened packaging, in a frost-free and dry place.

Remarks

- When applying the product on floors with underfloor heating it is recommended that expansion-contraction joints be cut every 25-30m² of surface and filled with the appropriate elastic materials.
- During application and initial setting/hardening of FLOWCRET 3-30 EXPRESS, the surface must be protected to prevent quick water loss due to high temperature, UV radiation or wind.
- Do not add cement, gypsum, lime or other binders to FLOWCRET 3-30 EXPRESS.
- Before the installation of parquet or vinyl tiles, it 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.
- Due to cement content, FLOWCRET 3-30 EXPRESS reacts with water forming alkaline solutions and thus is classified as irritant.
- Please consult the safety instructions written on the packaging before use.



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EN 13813 CT-C30-F7-AR0.5

Cementitious screed material for use internally
in buildings

DoP No.: FLOWCRET 3-30 EXPRESS/1640-02

Reaction to fire: A1_{fl}

Release of corrosive substances: CT

Water permeability: NPD

Water vapor permeability: NPD

Compressive strength: C30

Flexural strength: F7

Wear resistance BCA: AR0.5

Sound insulation: NPD

Sound absorption: NPD

Thermal resistance: NPD

Chemical resistance: NPD

ISOMAT S.A.

BUILDING CHEMICALS AND MORTARS

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