FLOWCRET 1-10

isomat
building quality

Self-leveling, polymer-modified cementitious screed

Description

FLOWCRET 1-10 is a self-leveling, polymer-modified, cement-based mortar, used for flooring applications. It forms a smooth and durable surface. Suitable for layers 1-10mm thick.
Certified according to EN 13813 and classified as CT-C30-F10-AR1. CE marked.

Fields of application

To prepare smooth and even interior concrete, mortar or terrazzo floors, before laying finishing materials like ceramic tiles, carpets, parquet, vinyl tiles, etc.

Technical data

Form:	cementitious powder
Color:	grey
Water demand:	5.5–6.0 l /25 kg bag
Bulk density of dry mortar:	1.40 ± 0.10 kg/l
Bulk density of fresh mortar:	2.10 ± 0.20 kg/l
Compressive strength: (EN 13892-2)	> 30.00 N/mm^2
Flexural strength: (EN 13892-2)	> 10.00 N/mm^2
Adhesive strength: (EN 13892-8)	> 2.0 N/mm^2
Wear resistance: (EN 13892-4 (BCA))	AR1
Setting shrinkage: (EN 13872)	0.29 ± 0.10 mm/m
Reaction to fire: (EN 13501-1)	Euroclass A1$_{fl}$
Pot life:	45-60 min at +20°C

Directions for use

1. Substrate
The substrate must be dry, stable and also free of dust, grease, loose particles, etc. Primarily, the surface is primed with the acrylic primer UNI-PRIMER. Product application follows once the primer has completely dried (approx. after 2 h). Primer consumption: 200-300g/m^2.

2. Application
FLOWCRET 1-10 is gradually added into 5.50-6.00l of water under continuous stirring, until a homogeneous, lump-free, low-viscosity mass is formed. The mixture is left for about 3 min. 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, squeegee, etc. 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. Following the completion of its application and after the required drying time has elapsed, FLOWCRET 1-10 should be covered or adequetely protected with a floor overlay (tiles, plastic flooring, resin coating, varnish, etc.).
For greater layer thickness up to 30mm, the use of FLOWCRET 3-30 EXPRESS is recommended.

Consumption

Approx. 1.65kg/m^2/mm of layer thickness.

Packaging

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

Shelf life – Storage

12 months from production date if stored in original, unopened packaging, in places protected from moisture and frost.

CE ISO 9001 CERTIFIED COMPANY

Remarks

- During application and initial setting/ hardening of FLOWCRET 1-10, the surface must be protected from quick water loss due to the high temperature, UV radiation or wind.
- Expansion joints should be placed at every 25m^2, in a maximum of 5x5m grid layout.
- Do not add cement, gypsum, lime or other binders to the FLOWCRET 1-10 mix.
- 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.
- FLOWCRET 1-10 contains cement and reacts as alkaline with water, so it is classified as irritant.
- Consult the safety instructions written on the packaging before use.

$C\,E$

ISOMAT S.A.
17th km Thessaloniki – Ag. Athanasios
P.O. BOX 1043, 570 03 Ag Athanasios, Greece

08

EN 13813 CT-C30-F10-AR1

DoP No.: FLOWCRET 1-10/1637-01

Cementitious screed material for use internally in buildings

Reaction to fire: A1$_{fl}$

Release of corrosive substances: CT

Water permeability: NPD

Water vapour permeability: NPD

Compressive strength: C30

Flexural strength: F10

Wear resistance: AR1

Sound insulation: NPD

Sound absorption: NPD

Thermal resistance: NPD

Chemical resistance: NPD