

FLC-301 Rapid Hardening Self Smoothing Compound

Description

KPRO Floor FLC-301 screed is a rapid hardening and rapid drying cementitious levelling compound for use in domestic and commercial applications. The product complies to the requirements of EN 13813 and should be used in accordance with this standard and manufacturer's instructions.

Applications

KPRO Floor FLC-301 screed is suitable for use internally to prepare substrates, by providing a smooth unbroken surface of 2-40mm, prior to installation of final floor coverings. For application depths greater than 20mm the introduction of Kilsaran 3-5mm grit is recommended. Suitable substrates are;

- Sand & Cement screeds
- Concrete
- Calcium Sulphate screeds (*must be primed)
- Heated Screeds

Product Use

Ensure the supporting concrete base/screed is stable, sound and free from any dust, dirt or grease. The supporting base should then be primed using a suitable acrylic or water-based primer prior to application. Priming of the substrate is critical to ensure sufficient flow life of the compound and to minimise entrapped air bubbles rising through the fresh compound material.

Preparation: Concrete, sand & cement and calcium sulphate screeds must be at least 28 days old and have a residual moisture level of $\leq 2.0\%$ CM, or a relative humidity of $\leq 75\%$ prior to installation of KPRO Floor FLC-301. Substrates should be dry, strong, crack free, with all loose debris/laitance removed and capable of supporting the weight of the compound material. Joints in the substrate should be carried through the FLC-301 and suitable perimeter strips should be incorporated at junctions etc. to restrain the fluid like fresh material. Heated screeds shall have their heating commissioned and turned off (off for a minimum of 4 days) prior to installation of FLC-301.

Mixing: The 25kg bag of material should be mixed with 5.75 - 6.0 litres clean potable water. Add the dry powder to the water and mix mechanically with a suitable paddle mixer until a lump free homogenous mix is achieved. Allow the fresh material to sit for 1 minute and then thoroughly stir/reagitate. In larger areas the use of a suitable screed pump is advised. Freshly mixed FLC-301 should be installed within 20-30 minutes of mixing. At application thicknesses greater than 20mm the introduction of Kilsaran 3-5mm grit is recommended. At the mixing stage, add 1 part Kilsaran 3/5mm grit to 5 parts FLC-301 i.e. 5kg of Kilsaran 3/5mm grit to 25kg of FLC-301, and ensure complete mixing.

Placing: Pour the mixed FLC-301 onto the prepared substrate. The mixed compound will flow across the floor surface and self-smooth during the first 15 minutes of its 20-30 minutes working time. Spread the fresh material uniformly, using a steel trowel or squeegee to the required thickness. A spiked roller may be used to aid the release of trapped air bubbles and is recommended on larger areas. A steel finishing float can be used for feather touch up work within the 20-30 minute working life. Apply at temperatures above 5°C.

Curing: Freshly completed work should be protected from draughts until hardening takes place. Impervious floor coverings can be laid after 24 hours* depending on material thickness, room relative humidity and room temperature. Floor coverings should only be installed after the material has reached a residual moisture level of 2.0% CM. Approximate drying times are noted in the adjacent table.

[†]Drying times are based on 20°C and 60% RH. Changes in temperature and humidity levels can affect these times.



Benefits

- Consistently high-quality mix
- Rapid Hardening – Walk on in 3 hours
- Polymer Modified
- 30 minute working time
- Low shrinkage/good crack resistance
- Convenient and User-Friendly
- Can be used from 2mm – 40mm depths
- Solvent free

Laying Depths

Screed Thickness	Depth
Minimum	2mm
Maximum	40mm*

Approximate Drying Times[†]

Screed Thickness	Days
2mm	1 day
10-15mm	3 days
20-30mm	5 days
40mm	7 days

Approximate Yield

Screed Depth	Coverage per 25kg bag
2	2.9 m ²
10	1.5 m ²
20	0.75 m ²
40	0.37 m ²

Application Temperatures



+5°C to +30°C

Health & Safety

Please refer to the relevant Material Safety data sheet online at www.kilsaran.ie.

Get in touch



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Technical Data

KPRO Floor FLC-301 screed is produced in an ISO 9001 quality-controlled environment to the requirements. The product is tested and marketed in accordance to CPR 305/2011 and complies with classification CT-C25-F5 in accordance to EN 13813.

Characteristic	Data Value			
	3 Hr	1 Day	7 Day	28 Day
Compressive Strength	≥ 5 N/mm ²	≥ 15 N/mm ²	≥ 20 N/mm ²	≥ 25 N/mm ²
Flexural Strength	≥ 2 N/mm ²	≥ 4 N/mm ²	≥ 5 N/mm ²	≥ 6 N/mm ²
Working Time (20°C)	20-30 mins			
Flow Life (20°C)	15 mins			
Initial Set	30 mins			
Final Set	2 hours			



Kilsaran Concrete,
 Piercetown Dunboyne Co. Meath Ireland
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EN 13813
 CT – C25 – F5
 Cement based levelling screed material for internal use

Compressive Strength	C25
Flexural Strength	F5
Reaction to Fire	A1
Release of Corrosive Substances	CT

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