



KEM FLOOR CSL 100

Self Leveling Floor Underlay

Ref. FL/CSLC-V2-0914

Description

KEM Floor CSL 100 is a blend of specially selected cements, graded aggregates, synthetic polymers and workability aids. It is supplied as a dry powder requiring only, the addition of water to produce a smooth free flowing and self leveling smoothing coat, which can be laid to a feather edge. When thickness greater than 10mm is required, washed concrete sand can be added in equal proportions (if sand is added the product becomes trowellable and is no longer self leveling).

Uses

For leveling out uneven floor surfaces prior to covering with floor finishes e.g. tiles, carpeting, linoleum, rubber and other sheet flooring.

Advantages

- **One pack product:** Easy to use, simply add measured Quantity of water.
- **Time saving:** Self leveling giving quick easy laying.
- **Excellent Bond:** content ensures built in, adhesion and a firm bond to substrate.
- **Rapid Hardening:** Enables early fixing of floor covering.

Typical properties

At 20⁰ C the mixed KEM floor CSL 100 starts to lose its flowability after about 10 minutes, but can be used for about 20 minutes. With stands foot traffic after 12 to 24 hours at 20⁰C.

Compressive strengths: 50 mm cubes cured at 30⁰C and under restraint at a Water-Powder ratio of 0.18 – 0.22: 30 N/mm²- 28 days.

Setting time: 6 – 8 hours at 25⁰C.

Bond strength: To concrete **ASTM – C-1042**

For 7 days – 3.5 N/mm²

14 days – 7.5 N/mm²

Direction for use

Surface preparation: The surface to be treated must be clean free from loose material, plaster, oil, paint or grease. Excess laitance should be removed by light scabbling or acid etching. New concrete should be cured at least 14 days before application.

Priming: Weak surface and old concrete floor should be primed prior to installation of KEM floor CSL 100. The priming coat is made of a 9:1, Water: SBR bonding agent mixture should be applied at least 2 hours prior to laying the KEM floor CSL 100. The primer should be allowed to dry forming a barrier, preventing air rising through the subfloor to form bubbles in the surface.

Mixing: Mix 25 kg bag of KEM floor CSL 100 with 4.5-5.5 litres of water. Part batches: Mix 3 parts by volume powder with 1 part by volume of water. A mechanical mixer or a slow speed drill and paddle should be used. Pour two thirds of the water into a clean mixing vessel. Add the contents of the bag slowly, whilst mixing, and continue until a smooth creamy consistency is obtained. Add the remaining water. Do not mix more material than can be laid in 10 minutes but ensure that the next mix is ready so that pouring can be continued until the whole area to be treated is complete.

Application: Pour the prepared mix onto the substrate, spread quickly with trowel or preferably with a notched rubber squeegee and allow to self level. Do not attempt to float the setting surface. If high spots or splashes of material occur on the surface these are best removed by paring them off with the edge of a trowel after initial set. When applying sand filled topping these must be laid in one application and battens used to provide correct levels. Some troweling will be necessary. At free edges tuck into a chase to prevent damage by tucking etc. The curing time will not be appreciably affected.

If a mix stiffens before it has been spread it must be discarded. Do not attempt to remix with water. Do not use below 5⁰C.

A normal damp proof membrane must be present in the sub floor. Any under floor heating must be switched off and the floor allowed to cool before commencing. The freshly applied material should be protected from direct sunlight and/or drying winds until the material is hard.

If the adhesive to be used is not moisture sensitive, floor covering can be laid so as the surface accepts foot traffic. If the adhesive is moisture sensitive the surface should be left undisturbed for 18/24 hours.



Coverage

Normal application thickness is up to 3mm. (Max. 10mm) Coverage IS approx. 2.5 kg/m² at 1.5 mm thick.

Packaging

It is supplied in 25 kg bags.

Precautions

Cleaning: All equipments must be cleaned with water immediately after use. Mixes containing this product must not be emptied into drainage systems.

Protection: All work must be protected from rain and frost until fully hardened.

Storage

Shelf life 6 months when stored in dry conditions at moderate temperature and humidity.

Fire resistance: It is not flammable.

Health & safety

It is non-toxic but is mildly alkaline. Gloves should be worn during application. Splashes to the skin or eyes should be removed with clean water. In the event of prolonged irritation, seek medical advice.

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