

JK Cement Floor Screed - FS11

Product Description: JK Cement Floor Screed FS11 is dry pre mixed and factory controlled product for levelling and smoothing un-even floors prior to laying decorative carpets, floor tiles, etc. It is composed of Portland cement, Selected Aggregates and Special chemical additives for enhancing the performance. JK Cement Floor Screed FS11 can be used for new or existing concrete slabs and cementitious floors.

Scope of use:

Topping and levelling Layer of Concrete and Cementitious Floors.

Advantages:

- Factory controlled blended mix to ensure consistency in quality.
- Develops sturdier adhesion strength with substrate.
- Imparts high compressive and flexural strength.
- Excellent abrasion resistance to rolling wheel and heavy machinery movements.
- Suitable for factories, hotels, resorts, schools, playgrounds and multistory buildings.



Available in **50kg**

Applicable International Standards :

EN 13813:2002 | EN 197:2011 | BS 8204:2010 | ASTM C109
BS 882 | EN 13892-2:2002 | BS 4551:2005+A2:2013.

Application Guidelines:

Substrate Preparation:



The substrate must be thoroughly cleaned, devoid of dust, loose particles, organic and inorganic debris, oil, grease and other contaminations that might else affect the bonding. The substrate must be cured by spreading clean and potable water on it prior to laying JK Cement Floor Screed FS11 to avoid suction of water from floor screed. The concrete base (substrate) should be kept wet for several hours before the levelling screed is to be laid.

For bonded screed, within a period of 30 minutes before laying the screed layer, the substrate should be brushed with a thin layer of creamy cementitious grout or slurry to obtain bonding treatment for upcoming layer of the screed.

For un-bonded screed, fill all the cracks and cut out hollow and loose portions on substrate and make it smooth before laying membrane/polythene sheet to spread screed. Separate the walls, beam and other structures from screed using foam strips all around and lay polythene sheet.

Mixing:



Mix a 50 Kg bag of JK Cement Floor Screed FS11 with 5.5 – 6.5 Liters clean water using an appropriate concrete mixer or a mixing machine. This mixing is to be done in a clean plastic/non-corrosive metal bucket. Mix it for 2 – 3 minutes until it is free from lumps. Ensure that the temperature of the mixed material does not increase more than 32° C. If needed, use cool water for mixing. After allowing it to rest for 2 minutes, mix it again and proceed for application. Excess water is not to be added after this stage.

Technical Characteristics:

Properties	Results
Binder	Ordinary Portland Cement
Aggregate size	< 5 mm
Appearance	Granular powder
Recommended layer Thickness	Up to 80 mm thickness bonded 25–40 mm & un-bonded 50-80 mm)
Water Mixing Ratio	5.5 – 6.5 Liter potable water per 50 Kg bags.
Working life	Approx. 60 minutes
Dry Density	1.70 ± 0.2 Kg/L
Wet Density	2.20 ± 0.2 Kg/L
Packing size	50 Kg bag
Yield/50 Kg Bag	23 - 29 Liters
Coverage	2.50–3.50 m ² /50 kg bag/10 mm thickness*
Compressive strength	> 30 N/mm ² at 28 days
Flexural strength	> 5 N/mm ² at 28 days

**The actual coverage however depends on many factors like nature of substrate, application, transferefficiency, etc. The values in this technical characteristics are based on standard and controlled conditions at laboratory*

Application:



Pour the mixed material on to surface of substrate. Level the material to the desired thickness using a long steel trowel or suitable tools to achieve maximum uniform level and maximum spread. Ideal application temperature is + 5°C to + 35°C.

In case of floating application, minimum thickness of screed is to be applied. Protect the material from wind and direct Sunlight during and post installation. It is recommended to cover the applied screed with a plastic sheet for about 7 days once it becomes walkable.

Curing: Cure JK Cement Floor Screed FS11 for 2 -3 times per day for a minimum of 7 days.

Recommendations:



- While applying bigger areas, it should be applied in stages of smaller areas in the order of less than 25 m².
- For corridors, control joints on each 15 linear meters and in every connection between rooms and corridors is to be fixed.
- Application during heavy wind is to be prevented as it would induce faster drying and might result in cracks formation.
- Don't subject it to vehicular traffic for at least 28 days of application till ensuring its full curing and systems ability to withstand designed traffic loads.
- Ground floor slabs on sloping gradient must incorporate a damp proof membrane in the subfloor.
- It should not be applied over asphalt, weaker friable concrete, PVC tiles or sheets.
- Don't use hard materials and don't remix with water once the material is set.

Storage:

- JK Cement Floor Screed FS11 bags are to be covered well and stored away from humidity, heat, Sun light and extreme temperatures. Also, it should be kept preferably on pallets.
- Shelf Life: 12 Months from date of manufacture if covered and stored well as said above.



Health & Safety:



- It contains Portland cement which becomes strongly alkaline upon mixing with water and this may cause skin irritation when exposed for very long time.
- Avoid contact with eyes and inhalation of dust. In case of skin/eyes contact, wash with plenty of clean water and seek medical attention immediately.
- It is highly recommended to use all relevant Personal Protective Equipment while handling it and work in well ventilated conditions while applying it.



Manufactured & Packed in UAE by

JK Cement Works (Fujairah) FZC

P.O. Box: 123630, The Citadel Tower, Office 2007-08, Business Bay, Dubai, UAE.

Tel : +971 4 279 7306 | Fax : +971 4 420 3906 | Email : sales.fuja@jkcement.com

www.jkcementuae.com



August 2021

Disclaimer:
The information given here is based on the best of our knowledge, good faith, experience and laboratory based results. The actual result depends on many factors, like nature of substrate, workmanship/quality of the application job at site, quality and quantity of water added, etc. Hence JK Cement Works (Fujairah) is not responsible for any sort of claims/disputes arising out of any negative results by using our Products. Also, the water for dilution given here is only based on lab results and might vary due to different conditions prevailing at the application site. JK Cement Works Fujairah is not held responsible for use of this product for applications other than specified and/or adopting any faulty application/curing methodologies. It is the user's responsibility to have through this Technical Data Sheet prior to applying our products and to ensure with JK Cement Works Fujairah that any product information is still prevailing at the time of application. Also the user must be sure that the product is suitable for the use intended and also applied it as specified while taking care of all precautionary measures. While all the products comply with the properties shown on current technical data sheets/brochures, JK Cement Works Fujairah does not warrant or guarantee the products' performance as it doesn't have any control over factors adopted during its actual application.