

KUT FLOW TOP

Self-Levelling Traffic Grade Floor Topping

FLR-08-1110



DESCRIPTION

KUT FLOW TOP is a two component polymer modified cementitious material designed for use as a floor topping at a thickness of feather edge to 15mm. It is formulated to incorporate the state of the art latex technology which provides excellent traffic durability. **KUT FLOW TOP** is placed at a self - leveling consistency and is also suitable as an underlayment in dry, moist or wet area.

USES

KUT FLOW TOP may be applied over any sound interior concrete surface. It is used for leveling of surfaces and repair of old worn concrete. Typical applications include floor repairs, warehouses, manufacturing facilities, rehabilitation, docks and office floors.

ADVANTAGES

- Quick easy repairs of worn floor surface.
- Bonds tenaciously to concrete.
- Excellent wear resistance under fork lift and light vehicle traffic.
- Flowable consistency for self - leveling applications.
- Pumpable through standard equipment.
- Self-leveling for smooth, flat floors.
- May be used in wet areas.
- Eliminates finishing procedures.

TYPICAL PROPERTIES

At 20°C the mixed **KUT FLOW TOP** starts to lose its flowability after about 10min., but can be used for about 20min. Withstands foot traffic after 2 - 4 hrs @ 20°C.

- **Compressive strength: ASTM C-109** 50 mm CUBES cured @ 25°C and under restraint at polymer to powder ratio of 0.14 40 N/mm² - 28 days

- **Setting Time:** 45 min. @ 25°C.
- **Bond Strength:** To concrete **ASTM C 1042**

7 Days -	3.5 N/mm ² .
14 Days -	7.5 N/mm ² .

INSTRUCTIONS FOR USE

Surface Preparation :

Surface to be treated must be clean free from loose materials, plaster, oil, paint or grease. Excess laitance must be removed by light scabbing or acid etching. The surface must be prepared mechanically using a scabber, bushhammer, shot blast or scarifier which will give a surface profile of minimum 3.2 mm and expose the large aggregates of the concrete. If acid etched, the salts of the reaction must be thoroughly pressure washed. Allow the concrete to dry completely.

For joints and edges chip the edge with hand held chipping hammer to provide the wedge shape joints as in the case of expansion joints should be brought up through the overlay by saw cutting or with the use of divider strip. All cracks over 1.5 mm wide should be cut and opened to 6 mm width and 10 mm depth prior to application.

Priming :

After surface preparation is complete, prime all the areas either with **KUT BOND EP** or with **KUT SBR NO.1**. If **KUT FLOW TOP** is exposed to wheeled traffic, use **KUT BOND EP** as primer. In case of very absorptive surfaces, use two coats of primer. For **KUT BOND EP** intercoat interval should be about 4 - 6 hrs @ 25°C and for **KUT SBR NO.1** it should be 2-4 hrs @ 25°C. Start application after 2 hrs and before 4 hrs after priming. Place the topping on the wet or tacky primer before it cures. For best results, use **KUT SBR NO.1** diluted at a ratio of 9:1 with water.



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Mixing:

Mix 25 kg bag of **KUT FLOW TOP** with 4-5kgs **KUT FLEXI**. A mechanical mixer or a slow speed drill and paddle should be used. Pour 2/3 of the polymer into a clean mixing vessel. Add contents of the bag slowly whilst mixing, and continue until a smooth creamy consistency is obtained. Then add the remaining part of the polymer. Do not mix more material than can be laid in 10 minutes. 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 a trowel or preferably with a notch rubber squeeze and allow to self level. After 5 minutes roll over with a spike roller. Roll again with the spike roller after another 5 minutes to attain smooth surface, free of pin holes. Do not attempt to float the setting surface. If high spots of splashes of material occur on the surface, these are best removed by paring them off with the edge of a trowel after initial set. If a mix stiffens before it has been spread it must be discarded. Do not attempt to remix with water. Do not use below 5°C. A normal damp proof membrane must be present in the sub floor. Freshly applied material should be protected from direct sunlight and/or drying winds until the material is hard.

For getting a sealed surface resistance to penetration of greases, lubricating oils, mild acids and alkalis, apply two coats of **KUT EPOXY COATING EWB - CLEAR**. Apply first coat 2 - 3 hrs after the application of **KUT FLOW TOP**. This would act as a curing membrane and avoids cracking. If no coating is used on **KUT FLOW TOP** it must be moist /wet cured for a minimum of 3 days. Use of **KUT CURE P** or **KUT FLEXI** after 3 days of wet cure is recommended.

Normal application thickness vary from feather edge to 15 mm.

PACKAGING

KUT FLOW TOP is available in 30 kg double pack consisting of a dry powder (Part A) and liquid polymer **KUT FLEXI** as part B.

YIELD AND COVERAGE

A 30kg pack yields 14 litres. Therefore at 5 mm thickness it covers 2.8 m².

PRECAUTIONS

Cleaning: All equipment 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 of 12 months when stored in dry conditions at moderate temperature and humidity.

Fire Resistance: **KUT FLOW TOP** is not flammable.

HEALTH AND SAFETY

KUT FLOW TOP is non toxic but mildly alkaline. Gloves must 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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