



ACF CEM SLUL 2500

Polymer modified self-levelling cement-based underlay

DESCRIPTION

ACF CEM SLUL 2500 is a fast drying, low shrinkage and self leveling cementitious underlayment flooring compound. It is based on high strength cement, polymers, carefully graded filler and other additives. It requires just addition of potable clean water at site. It is applied at thickness 2.5 mm to 5 mm. It has good loads and abrasion resistance which enables the material to be used in areas subject to trolleys and chairs.

USES

ACF CEM SL UL 2500 is applied over concrete substrates that needs a levelled surface for laying resilient floors such as Vinyl, wood floorings, ceramics, PVC, Carpets etc

- Hotels
- Restaurants.
- Residential areas
- Shopping Malls
- Airports
- Schools and institutions
- Offices

ADVANTAGES

- Single component, just requires addition of clean potable at site
- Very good cohesive flow
- Good workability even after 25 minutes
- Shrinkage resistant
- Excellent abrasion resistance
- Crack proof.
- No surface repair is required if proper continuity is maintained during application.

TYPICAL PROPERTIES

Color	Grey powder
Shrinkage according	<0.5 mm/m to EN 13454-2
Flexural strength at 28 days	>9 MPa – EN 13813:2003
Compressive strength	>35 MPa at 28 days – EN 13813:2003
Bond strength at 28 days	2.2 Mpa as per EN 13892-8:2002
VOC	Low VOC
Application temperature	+5 to +35 °C range
Substrate temperature	+5 to +35 °C range

APPLICATION METHODOLOGY

SURFACE PREPERATION

- Concrete substrate to be coated must be structurally sound.
- Moisture content of the floor must be less than 4%
- Any cracks or other defects must be repaired with suitable ACF products prior to laying of floor.
- Surface must be free from laitance, grease oil, dust, paint or any other contaminants that will affect the bonding.
- Loose concrete portions must be removed and repaired.

- Smooth surface must be abraded by suitable method to enhance the bonding of the flooring to be laid.
- The surface must be vacuum cleaned and made dust free prior to application.

PRIMING

- After proper surface preparation, coat the entire area with ACF Universal primer. (Acrylic based)
- Application of primer is strongly recommended not only for bonding, but also to seal all the pores of Concrete
- If ACF Epoxy Primer HB is being used as primer then, soon after application of the primer sprinkling of quartz sand is highly recommended when the primer is still wet.
- Allow the primer to dry before laying the Underlay.

MIXING OF ACF CEM SLUL 2500

- Water powder ratio of 0.14 to 0.145 must be maintained for mixing
- Water powder ratio must not exceed 0.145
- The container used for mixing must be clean and free from oil or any other contaminant.
- Pour about 80% of the recommended water into the container.
- Into the weighed water, add the powder component slowly whilst mixing.
- The mix may appear dry or like mortar initially,
- Once the all the added material is wet, then add remaining 20% of water whilst mixing.
- Continue till homogenous lump free cohesive mix is achieved.
- Mixing may be done using suitable drill mixer fitted with paddle or any other mechanical mixer.
- Avoid mixing at very high speed, because at higher speed lot of air entrapment will occur.

APPLICATION

- Pour the mixed material on to the primed area.
- Spread the material using notched trowel to achieve desired thickness. (Choose suitable notched trowel as per the thickness required)
- After proper spreading of the material on the floor, roll the applied material with spike roller to remove entrapped air.
- Rolling may be done till 2 - 3 minutes after spreading.
- Proper labour force is required to maintain the continuity of the flooring.
- Mix only that much quantity which can be applied in 10 – 15 minutes.
- It is very important to cleanly apply the joints of two different mix. (Skilled labour must be used to trowel the flooring)
- After application, allow the floor to dry.

NOTES

- Water that will be used for mixing must be very cool.
- Extra addition of water must be avoided
- Ensure that the surface temperature of the floor is well within the recommended temperature
- Unlike epoxy application, spike roller is applied just for very brief period of time.
- For higher thickness it is advisable to use minimum recommended W/P Ratio

COVERAGE

For 3 mm 6 Kg per sqmtr.

For 5 mm 10 Kg per sqmtr

Above 5 mm it is advisable to apply in two coats and primer is required between two coats.

PACKAGING

ACF CEM SL UL is available in 20 Kg packaging

Universal primer is available in 15 Kg pail

Epoxy primer is available in 15 Kg kit

STORAGE

ACF CEM SL UL 2500 must be stored in cool dry place away from direct sunlight
Avoid high humid conditions
The bags must not come into contact with water.

SHELF LIFE

12 months when stored as above in unopened original sealed condition.

HEALTH AND SAFETY

- This product is irritating to eyes and skin due to the contents. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water and soap.
- Wear appropriate protective clothing, gloves and face shield.
- The product should not be inhaled. A dust mask should be used if necessary.
- Keep the product out of the reach of children

***Note:** The initial controls of our product are made during the production phase. We guarantee the quality of our products. All recommendations and instructions on the data sheet are generally based on our experience. Please contact us for applications on special surfaces are not mentioned in the datasheet. Our company reserves the right to update the information on the data sheet in case of technical needs without notice.*

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