

## **CF- Dura-SLF**

### **Self –levelling Epoxy Floor Topping**

#### **DESCRIPTION**

CF- Dura SLF is a three component pigmented epoxy floor topping which is laid at a thickness of 0.5 mm to 3 mm. CF- Dura SLF is jointless, monolithic, smooth , non-porous, hygienic, and chemically resistant and is easy to clean and maintain . It is available in a number of colours and has sufficient strength to withstand industrial traffic with nylon / rubber wheels.

#### **AREA OF APPLICATIONS**

CF- Dura SLF is resistant to fungal & bacterial growth and is ideally suited for areas where hygienic , dust free and wear resistant surface is needed. It is recommended for application in the following areas :

- Chemical plants
- Pharmaceuticals & Aseptic areas
- Food Processing areas
- Bottling plants
- Electric / Electronics industries
- Computer rooms
- Hospital Operation Theatres & Corridors
- Nuclear plants .
- Dairies & breweries
- Laboratories
- Aerospace industry
- Airport hangers
- Picture tube manufacturing plants
- Showrooms
- Fermentation floors in tea garden
- Textile mills

#### **ADVANTAGES**

- ◆ Easy to apply. Flowable consistency for self leveling application.
- ◆ Has excellent bond to concrete and other substrates like kota stones (seamless, non staining) does not allow growth of bacteria hence suitable for potable water or food storage
- ◆ Good resistance to abrasion. Does not generate dust even under vehicular traffic
- ◆ Has a number of attractive colours
- ◆ Excellent resistance to chemicals

#### **APPLICATION METHODOLOGY**

Correct preparation of surface is essential. When applied over concrete, the surface must be sound, free from dust, laitance and other contaminants. Surface must be prepared by mechanical abrasion. For best bond, concrete surface must be slightly textured. Remove oil and grease by washing with liquid detergent followed by acid wash. Allow the floor to dry before priming. Remove old coating if any, by grinding surface.

**Priming** : Surface should be bone dry prior to this application. All surface should be primed using CF-Primer(F) at a rate 150 gms per Sqm. Mix Primer Component A & B thoroughly and apply by brush. Allow the primer to dry for 4 to 6 hours till it is touch dry. (Normally it is better to apply CF- Dura SLF on CF-Primer(F) the next day).

**Mixing of CF- Dura SLF:** Mixing is carried out in a specially designed drum mixer or in a bucket using drill mixer fitted with paddle. Mix CF- Dura SLF component A & C thoroughly with the help of mixer/drill mixer till a homogeneous mix is obtained and then add Component B slowly, ensuring complete dispersion. After adding Component B, continue mixing for 5 - 10 minutes.

CF- Dura SLF must be laid immediately after mixing is over. The mix should be spread evenly over the recommended area using a steel trowel with notches. Use spike roller with long handle on pourable casted floor to remove entrapped air.

If antiskid surface is required, scatter antiskid aggregate on to the applied surface within one hour of CF- Dura SLF application.

Where there are expansion joints in the subfloor, these must be continued through the CF- Dura SLF. Cut open the concrete floor & anchor CF- Dura SLF around trenches or gutters & near entrance etc. vulnerable areas.

#### PHYSICAL PROPERTIES

##### CF- Dura SLF

◆ Compressive Strength	-	50 N/MM <sup>2</sup>
◆ Flexural Strength	-	35 N/MM <sup>2</sup>
◆ Adhesion to concrete	-	3.00 N/MM <sup>2</sup>
◆ Tensile Strength	-	18N/MM <sup>2</sup>
◆ Water absorption at 27°C at 24 hr	-	0.20 %
◆ Elongation at break	-	8 %
◆ Rockwell hardness on R Scale	-	82
◆ Flash point		
◆ CF- Dura SLF 'B' Component	-	42°C
◆ CF-Primer(F)	-	42°C

#### TECHNICAL DATA

**COVERAGE** : CF- Primer(F) 150 gm/sqm  
 CF- Dura SLF 3.0 - 3.5 kg/sqm at approx.2.0mm thickness.  
 CF- Dura SLF 1.0 - 1.1 kg/sqm at approx.0.05mm thickness.  
 CF- Dura SLF 1.6 - 1.75 kg/sqm at approx.1.0mm thickness  
 Coverage however, will be subject to porosity & surface finish.

**POT LIFE** : 50 minutes (approx) at 30° C

**CURING TIME** : Foot traffic after 24 hours.  
 Full cured - 7 days

**SHRINKAGE FACTOR** : Negligible.

## PACKAGING

CF- Primer (F)	:	10 kgs
CF- Dura SLF	:	21 kgs

## CHEMICAL RESISTANCE

CF- Dura SLF is resistant to a variety of chemicals as given below :

10 %	Acetic Acid	10%	Nitric Acid
25 %	Ammonium Hydroxide	10 %	Sulphuric Acid
50 %	Caustic Soda		Fruit Juices
10 %	Citric Acid		Beer
10 %	Lactic Acid		Wine
25 %	Phosphoric Acid		Crude Oil
10 %	Hydrochloric Acid		Petrol

\* Prolonged contact will affect the flooring. Should start washing the floor only after 3 days of curing from application time. Wash off spillage with water . Regular washing of floors with water is recommended. Good housekeeping such as regular washing will prolong the life of the floor.

## COLOUR RANGE

CF- Dura SLF is available in various colours like Blue, Brick Red, Olive Green , Light Grey etc. While every effort is made in manufacturing to maintain consistency of colour, exact colour matching between batches cannot be guaranteed.

## CLEANING

Clean all tools immediately after use with Xylene . Do not allow the material to harden.

## STORAGE

12 months in original unopened containers. Do not expose to direct sunlight.

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### CAUTION

All products should be used in accordance with the manufacturer's instructions. The manufacturer will take no responsibility where conditions of use are beyond their control.

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### TECHNICAL INFORMATION & SERVICES

For additional technical information and on-site demonstration, please contact:  
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## **Registered Office**

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