

Three Components Epoxy Screed and Repair Compound

DESCRIPTION AND USES

- **Apcoflor Epoxy HB Screed 200** is a three component epoxy screed system designed to protect concrete floors in medium to heavy-duty situations. Applied by trowel in a thickness of 5mm and above, **Apcoflor Epoxy HB Screed 200** is suitable for use as a screed or repair medium.
- Used in Heavy traffic area, which need excellent mechanical properties and superior abrasion resistance.
- Used in general floor repairing especial where abrasion and chemical resistance is required.
- Can be used in :
 - Factories and stores of Foods, meat, Vegetable and fruit canning.
 - Chemical production and processing.
 - Metal processing and engineering.
 - Textile production - bleaching and dying.
 - Ramps and Car parking.
 - Workshops.
 - Production halls.

INSTRUCTIONS FOR USE

1. Surface preparation:

- NEW CONSTRUCTION:

- Floors to be coated or overlaid should be at least 28 days old unless water-reducing admixtures have been incorporated.
- Specialist finishes should not be applied to concrete, which contains more than 5% moisture by mass. Contaminants must be removed. Mechanical means such as vacuum recovery shot blasting or scarifying is the best way to achieve it..

- EXISTING CONCRETE:

- Surface must be clean and free from contaminates this is can achieved by mechanical means such as blasting followed by using an industrial vacuum to remove dust and other loose debris using.
- Soap, detergents and hot compressed air can be used In case of contamination by oils, greases and fats followed by impregnation with low viscosity primer. Concrete should be levelled to produce a roughened flat surface. Expansion, control and isolation joints in concrete substrates should be carried through.
- **Apcoflor Epoxy HB Screed 200** floors and filled with SPU sealant from Scib.
- At all details where **Apcoflor Epoxy HB Screed 200** systems will terminate, for example, at expansion, control or movement joints, at doorways, channels or columns, the material must be given a mechanical bond to the substrate using tie chasers.

- Tie chasers are grooves cut in existing concrete about 20mm deep and wide. Tie chasers can be cast during initial construction using polythene coated timber battens or cut prior to surface preparation.
- **Apcoflor Epoxy HB Screed 200** should be protected from extremes of temperature during storage to avoid inconsistent workability. Before 24 hours from application of **Apcoflor Epoxy HB Screed 200** The maximum temperature of storage is 25°C.
- **PRIMING:**
- Prime using **Apcoflor HFP 120 Primer**. Mix the two components until uniform consistency is obtained using a slow speed drill with a suitable paddle. The components are pre-weighed and should not be split or divided.
- Apply by brush or roller and work well into the surface.
- Apply according to the stated coverage. Allow standing for 20 minutes before applying the **Apcoflor Epoxy HB Screed 200** to check for absorption. If the surface becomes matt, showing absorption, re-prime the surface. Apply **Apcoflor Epoxy HB Screed 200** whilst the primed surface is still tacky. If the .primer hardens re-prime within 24 hours.
- **MIXING:**
- Mixing should be carried out using a forced action mixer such as a Creteangle or Mixal Mixer. Add the base and Cure pack to the mixer completely emptying the contents of the containers. Mix for 1 minute until a uniform colour is achieved. Slowly add the aggregate component and mix for a further 3 minutes until a uniform colour and consistency is achieved.
- Mixing times should be varied according to temperature but typically 4 minutes in total is sufficient. It is important to maintain constant mixing times throughout the contract, to ensure consistent colour and to avoid introducing excessive air into the system. **Apcoflor Epoxy HB Screed 200** systems are supplied in pre-weighed packs, which should not be split or divided. It is important to use complete packs.
- During application in cold weather, correct conditioning is essential. Application should be halted if the ambient or substrate temperature is likely to fall below 10°C. Consideration should be given to the substrate or base slab as it is likely to be considerably colder than the surrounding air temperatures. When temperatures exceed 30°C, working times will be reduced significantly.

Our recommendations are based on extensive research as well as practical experience. However, as the product is often used under conditions beyond our control, we cannot guarantee anything but the quality of the product itself. We reserve the right to change the given data without notice. Please note that this data sheet supersedes any previous prints. For any additional information, please consult our technical office.

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ADVANTAGES

- High mechanical strength.
- Excellent chemical and abrasion resistance.
- Slip resistance.
- Suitable for food industries.

COLOURS

- **Apcoflor Epoxy HB Screed 200** is available in neutral; dust grey and other color based on request.

TECHNICAL DATE

Properties

Compressive strength	ASTM C579	$\geq 80 \text{ N/mm}^2$
Flexural strength	ASTM C580	27 N/mm^2
Bond strength	ISO 4624	1.8 N/mm^2 (concert failure)

MIX RATIO

Mixing ratio (Wt.)

Part A	2.17
Part B	0.43
Part C	26.40
Total	29.00

STORAGE AND SHELF LIFE

- Up to 12 months if stored in unopened containers according to manufacturer's instructions.
- In places where high heat and humidity are present, special precautions must be taken.
- Store product in a covered, well ventilated warehouse and avoid excessive heat conditions.
- Storage in high heat, high humidity condition may reduce shelf life by around 30%.
- Follow First in First Out strictly.
- Don't store within one meter of roofing of the ware house or storage building.

SAFETY PRECAUTIONS

- Avoid contact with the skin and eyes. Wear suitable protective clothing such as overalls, goggles, dust masks and gloves. Use a barrier cream.
- Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe vapor or spray.
- This product is flammable. Keep away from sources of ignition. Do not smoke. Take precautionary measures against static discharge. In case of fire – blanket flames with foam, carbon dioxide or dry chemicals.
- Refer to MSDS for further information.