

DecoFloor

Decorative epoxy flooring system

Description

DecoFloor is an epoxy based floor topping system, comprising of an epoxy resin, a curing agent, colour concentrate and decorative fillers. DecoFloor incorporates blended decorative, light weight granules in a tough clear epoxy matrix which is then sealed with hard wearing polyurethane clear top coat. With varied range of decorative granules and with varied base colours, high performance designer floors in unlimited custom patterns are created. The entire kit of DecoFloor will cover an area of 6 sq m @ 2mm thickness.

Uses

- Restaurants
- Retail stores
- Counter tops
- Garages

- IT
- Restaurant
- Gyms

Key features

- Excellent stain and wear resistance
- Easy to clean
- Unlimited number of colour combinations
- Hard wearing

System details

- Primer : Cipoxy 17 / 18
- Self levelling : Decofloor 2000

Properties

Type : Epoxy polyamine

Mixing ratio : Pre-weighed packs

Finish : Smooth & uniform

Pot life : 80 minutes
ASTM D 2471

Drying time : 4 hrs
ASTM D 1640

Surface dry : 4 hrs
Tack free dry : 6 hrs
Hard dry : 24 hrs

Solid content by wt : 98%
ASTM D 2369

Application : By trowel / spike roller

Recommended thinner : PUT 502
Clean up

Shelf life : 12 months in the unopened container

Performance data

The mandatory performance parameters as per FeRFA and EFNARC guidelines for resin flooring system

Pull off adhesion test : \geq MPa for M20 grade concrete or concrete failure
ASTM D 4541
(On concrete)

Abrasion resistance : Maximum 30 mg loss
ASTM D 4060

Impact resistance : 9.81 N.m
ASTM D 2794-1993
(Falling weight : 1 Kg)

Slip resistance : 38-40 PTV
EN 13036-4-2011 - low slip potential

Other mechanical properties

Tensile strength : 6 MPa
ASTM D 638

Flexural strength : 11 MPa
ASTM D 790

Shore D Hardness : 75
ASTM D 2240-2015

Mixed density : 1.67 gm / cc

Note : The typical physical properties given above are derived from testing in a controlled laboratory environment. Results derived from testing field-applied samples may vary, dependent on actual site conditions

DecoFloor

Decorative epoxy flooring system

Chemical resistance

Excellent resistance is observed against distilled water, detergent solutions, alkalies and acids. Chemical spillages should always be wiped up as quickly as possible and not be allowed to concentrate up by evaporation.

Application instructions

Surface preparation

The long-term durability of the applied DecoFloor coating is dependent upon the adhesive bond achieved between the flooring material and substrate. It is most important therefore, that substrate surfaces are correctly prepared prior to application. Ensure that the residual moisture level in the concrete is below 5%. All substrates should be sound and free from contamination such as mortar and paint splashes, curing compound residue, oil, or grease. Excessive laitance should be removed by light mechanical scrubbing, grinding or grit blasting. Oil and grease contamination must be completely removed by grinding down to sound, clean concrete. Alternatively, blasting techniques can be used to provide the required substrate. The CSP should be between 3-4.

Priming

Cipoxy 17 Resin and Cipoxy 17 Hardener is supplied separately in 20 ltrs packing. Mix Resin and Hardener in equal proportions. Solvent or thinners should not be added. A forced action mixer with a paddle fitted into a heavy duty, slow speed electric hand drill is recommended for mixing. The material is poured onto the prepared substrate and spread to the required thickness with a roller. Allow to cure overnight. Porous floors may require two coats of primer. Overcoating window time should not exceed 24 hours. In case overcoating window exceeds 24 hours, re-coating of primer is necessary.

Mixing & Application

DecoFloor is supplied in preweighed packs ready to use on site. Solvent or thinners should not be added. A forced action mixer with a paddle fitted into a heavy duty, slow speed electric hand drill is recommended for mixing. The material is poured onto the primed substrate and spread to the required thickness with a Notch trowel and spike roller to be applied to remove inbuilt air.

Packaging and Theoretical coverage

DecoFloor is available in pre-weighed kits of 15.915 kgs and has a maximum shelf life of 12 months in un-opened containers. It should be stored in a cool place, away from direct sun light and rains.

Coverage : 1 set covers 4.5 - 4.7 sqm @ 2mm

Storage and handling

The product should be stored in accordance with national regulations. It should be kept in a cool, well ventilated area, away from heat, direct sunlight, sparks and children. Handle with care. Mix resin and hardener as per the ratio. Use the mix solution within the pot life time.

Health and safety precautions

Please refer to MSDS. Observe reasonable care and employ ordinary hygienic principles such as washing the hands with soap and water before eating or smoking. It is recommended to wear gloves, goggles and nose masks while application. In case of splashes on the skin, dampen the cloth with thinner PUT 503 and wipe the hands with the cloth. Wash then with soap and water. Dried film is non toxic. In case of contact with eyes, rinse with plenty of water and seek medical advice. In case of continuous exposure to vapour, the applicator should be immediately moved to get fresh air. The disposal of excess or waste material should be carried out in accordance with the local legislations.

Do's

Clean regularly
Remove aggressive chemical spillage immediately
Maintain wheel for proper rolling, should not get dragged.
Nylon / teflon wheel trolleys are recommended
Handle heavy material gently and cautiously
Immediately clean spillage of any oil or fatty liquid which may cause accident during people's movement

Don't

Drag any sharp and heavy object. Movement of metal wheel trolley
Expose to fire or welding spark
Expose to very high temperature than recommended by Manufacturer
Drop down any heavy material on the floor
Expose to highly corrosive chemicals

DecoFloor

Decorative epoxy flooring system

Limitations

Self-smoothing is a term used in the flooring industry to describe a composition which after being spread to a uniform layer of appropriate thickness, develops a smooth, resin-rich surface. This self-smoothing action is very localized and does not eradicate irregularities of level present in the original substrate. It is most important, therefore, that adequate surface preparation and repair is undertaken prior to application. It is not compatible for application over asphalt, unmodified sand-cement screeds or PVC tiles and sheets. DecoFloor coating laid floor will be scratched due to nails or sharp objects protruding from machinery, packings, or trolleys moving on the floor. Presence of sand will also cause abrasion. The product is not advised to be applied below 15 °C as the flow reduces. While applying the product above 35 °C, there can be a problem of low pot life etc., and it will be difficult to apply the material. Cured product is not suitable for exposure to sub-zero temperatures and above 65°C. When there is not enough material in a given area, roller marks caused due to spiked rolling may not close which will result in an undesirable finish. The product is not suitable for areas exposed to direct sunlight.

Other Products Categories available Dr.Cipy brings you the widest range of Flooring Systems

