

# DeckFloor PU

PU based modified for high abrasion resistant, antiskid car park system

## Description

Environmental friendly Type 4 (as per EFNARC classification) PU based flooring system, modified for high abrasion and flexibility, multi layer broadcast car park deck system designed for intermediate and ramps areas.

## Uses

- Deckfloor PU is designed for car park deck system - intermediate deck and ramps with anti-skid finish.

## Key feature

- Environment friendly
- Solvent free
- Flexible
- High abrasion
- Anti skid
- UV resistance with top coat of FK 333



Certified

## Performance data

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

Pull of adhesion test  
ASTM D 7234-2022 :  $\geq 2$  MPa for M20 grade concrete or Concrete failure

Abrasion resistance  
ASTM D 4060-2019  
CS 17, 1 kg, 1000 cycles : Maximum 55 mg loss

Pendulum test  
Slip resistance  
BS 8204 :  $\geq 70$  (very low risk of slip)

## Other mechanical properties

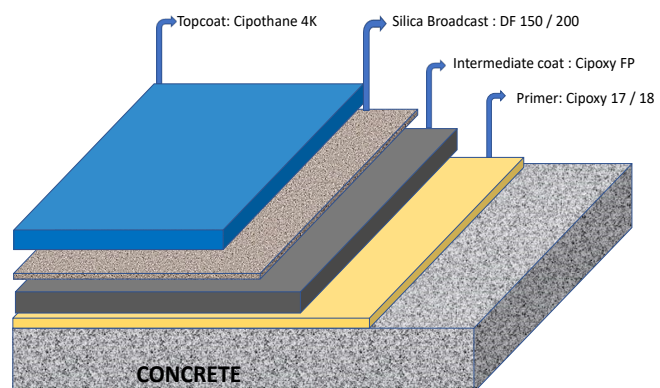
Elongation  
ASTM D 638 :  $\geq 2.5\%$

Curing time @ 25°C

Foot traffic : In 24 hours  
Light vehicular traffic : In 42 hours  
Full vehicular traffic : By 5 days

## System design

System	: Product name
Primer	: Cipoxy 18
Intermediate	: Cipoxy FP
Broadcast	: DF 150 / DF 200
Top coat	: Cipothane 4K



**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

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## APPLICATION INSTRUCTIONS

### Surface preparation

The long-term durability of the applied Cipothane 4K 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.

### Priming

Prepared substrates to be treated with Cipothane 4K, should be primed with Cipoxy 18. Primer should be mixed in the proportions supplied by adding the entire contents of hardener can to the base can. Once mixed the material should be immediately applied in a thin, continuous film using stiff brushes or rollers. Over application and puddles should be avoided. Porous floors may require two coats of primer. It should be allowed to become tack free. Primer coverage will depend on the texture and porosity of the substrate and also the application thickness.

### Intermediate coat

Cipoxy FP Resin and Hardener is supplied separately in 20 litre 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 primed substrate and spread to the required thickness with a painting roller/ stiff brushes.

### Broadcast

Whilst Intermediate coat is still wet, blind with broadcast aggregate DF 150 at an estimated rate of between 2 – 2.5 kg / m<sup>2</sup>, leave to dry for 16 hours @ 35°C. Prior to the removal of excess antislip grain ensure that the grains are firmly embedded in the intermediate layer

### Top coat : Mixing & Application

Cipothane 4K is supplied in pre-weighed packs ready to use on site. Solvent or thinners should not be added. Mix all the components of Cipothane 4K in a clean bowl and stir for 2-3 minutes using slow speed mixer. The material is poured over broadcasted surface and spread to the desired thickness by using pain roller. Allow to cure for 24 hours..

### Packaging and coverage

Product name	Type	Pack size	Coverage per pack to achieve 1.5mm DFT	Coverage per pack to achieve 2.5mm DFT
Cipoxy 18	Primer	20 litre	100 sq m per pack	130 sqm per pack
Cipoxy FP	Intermediate	20 litre	100 sq m per pack	33 sqm per pack
FQ 90	Screed aggregate	25 kg	----	21 sqm per pack
DF 150	Anti slip grain	25 kg	10 sq m per pack	12.5 sqm per pack
Cipothane 4K	Top coat	Pre-weighed set	43 sq m per pack	36 sq m per pack

### 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. Ideal temperature for storage of the material is 25°C to 30°C, in a covered shed.

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## Do's

- Clean regularly
- Remove aggressive chemical spillage immediately
- Maintain wheel for proper rolling, should not getdragged.
- Handle heavy material gently and cautiously
- Clean any oil or any liquid which may cause accident during people's movement

## Don't

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

## 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. Incase of splashes on the skin, dampen the cloth with thinner PUT 503 and wipe the hands with the cloth. Wash then with soap.

## Limitations

It is not compatible for application over asphalt, unmodified sand-cement screeds or PVC tiles and sheets. PU DeckFloor system 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, here 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

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