

Spartikote FC

Polyaspartic UV stable, fast curing floor coating

Description

Spartikote FC is the new generation, four component, polyaspartic pigmented, UV stable floor coating. Spartikote FC has exceptional abrasion resistance, superior adhesion and is rapid curing top coat over concrete, epoxy, PU, EPU and aggregates broadcast epoxy systems.

Uses

- Fast curing top coat where color stable, UV resistance is required
- Fast setting excellent for maintenance works
- Stand alone product as high build roller applied coating on concrete

Key features

- UV resistance and light stable
- Fast cure within 4 hours
- Excellent gloss
- Excellent abrasion and impact resistance
- Excellent hot tyre pick up resistance
- Can be applied in severe winter
- No blushing at low temperature



Certified

Properties

Type : Polyaspartic aliphatic polyurea

Finish : Smooth and glossy

Pot life @ 25°C : 30 minutes
ASTM D 2471

Drying time : 30 minutes
ASTM D 1640

Surface dry : 30 minutes
Tack free dry : 2 ½ to 3 hrs

Recommended thinner : PUT 502 (Clean up)

Mixing ratio : Pre-weighed kit

Volume Solids : 82%
ASTM D 2697

Recommended DFT : 300 microns
ASTM D 7091

Application : By roller

Shelf life : 6 months in the unopened container

Performance data

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

Pull of adhesion test : ≥ 2 MPa for M20 grade concrete or Concrete failure
ASTM D 4541

Abrasion resistance : Max 34 mg loss (in 1000 cycles)
ASTM D 4060

Impact resistance : 9.81 Joule
ASTM D 2794-1993
Falling weight - 1 kg

Slip resistance : 50 - 55 PTV - low slip potential
BS 8204

Other mechanical properties

Tensile strength : ≥ 12 MPa
ASTM D 638

Elongation : 20%
ASTM D 638

Scratch resistance : 4 kg passes
IS 101, Part 5, Sec 2

Shore D Hardness : 55-60
IS 101 (Part 5, Sec 2)

UV Stability : Pass (No colour change)
ASTM D 4329 - 2021

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

SUBSTRATE PREPARATION

CONCRETE SUBSTRATE PREPARATION :

The long-term durability of the applied Spartikote FC 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 above 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 Spartikote FC coating, should be primed with Cipoxy 17/18. Primer should be mixed in the proportions supplied by adding the entire contents of hardener can to the base can. Once mixed the Cipoxy 17/18 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 prior to application. Primer coverage will depend on the texture and porosity of the substrate and also the application thickness. Overcoating window time should not exceed 24 hours. In case overcoating window exceeds 24 hours, recoating of primer is necessary.

ON EXISTING RESIN TOPPING

Prepare the surface of the existing coating using mechanical grinding equipment. Remove dust and contamination from the prepared surface using vacuum extraction equipment. No primer is required for application of Spartikote on existing epoxy, PU, EPU and PU concrete.

MIXING AND APPLICATION

Spartikote FC is supplied in pre-weighed pack. 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 and allow to cure for minimum 4 hours.

Packaging & Coverage

Spartikote FC : Pre weighed kit of 4.83 kgs (clear) : 1 set covers 10.9 sqm @ 300 microns DFT
EPI kit will be of 0.35 kgs.

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. It contains inflammable solvents. Handle with care. Mix resin and hardener as per the ratio. Use the mix solution within the pot life time. Ideal temperature for storage of the material is 25°C to 30°C, in a covered shed.

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.

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Do's

- Clean regularly
- Remove aggressive chemical spillage immediately
- Maintain wheel for proper rolling, should not get dragged. Nylon / teflon wheel trolleys are recommended
- 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

Limitations

It is not compatible for application over asphalt, unmodified sand-cement screeds or PVC tiles and sheets. Spartikote FC 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.

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