Spartikote CG

Polyaspartic UV resistance fast curing clear floor coating

Description

Spartikote CG is the new generation, two component, UV stable floor coating. Spartikote CG has exceptional abrasion resistance, superior adhesion and is rapid curing top coat over all resin flooring and aggregates broadcast epoxy systems.

Uses

- Fast curing top coat where UV resistance is required
- Fast setting excellent for maintenance works
- High build roller applied coating on all resin flooring

Key features

- UV resistance and clear coat
- 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

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Properties

Type	: Polyaspartic aliphatic polyurea		Mixing ratio	: Pre-weighed kit
Finish	: Smooth and glossy		Volume Solids ASTM D 2697	: 86%
Pot life @ 25^{0}C ASTM D 2471	: 30 minutes			
Drying time ASTM D 1640 Surface dry Tack free dry	: 30 minutes : 2 ½ to 3 hrs		Recommended DFT ASTM D 7091	: 270 - 280 microns
			Application	: By roller
Recommended thinner	: PUT 502 (Clean up)		Shelf life	: 6 months in the unopened container

Performance data

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

Other mechanical properties

Pull of adhesion test ASTM D 4541	: ≥ 2 MPa for M20 grade concrete or Concrete failure		Tensile strength ASTM D 638	: ≥ 22 MPa
Abrasion resistance ASTM D 4060 CS 17, Wheel, 1 kg	: Max 28 mg loss (in 1000 cycles)		Elongation ASTM D 638	: 16%
			Scratch resistance IS 101, Part 5, Sec 2	: 4 kg acceptable
Impact resistance ASTM D 2794-1993	: 9.81 Joule		Shore D Hardness ASTM D 2240	: 55-60
Slip resistance BS 8204	: 45 - 50 PTV - low slip potential		UV Stability ASTM D 4329-2021	: Pass, No colour change

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 INSTRUCTION

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 applcaition of Spartikote CG on existing epoxy, PU, EPU, PU Concrete and Polyaspartic.

MIXING AND APPLICATION

Spartikote CG 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 CG	:	Pre weighed kit of 3 kgs	:	1 set covers 9 sqm @ 270 to 280 microns DFT

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. Incase 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. Incase of contact with eyes, rinse with plenty of water and seek medical advice. Incase 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	Don't
Clean regularly	Drag any sharp and heavy object. Movement of metal wheel trolley
Remove aggressive chemical spillage immediately	Expose to fire or welding spark
Maintain wheel for proper rolling, should not get dragged. Nylon / teflon wheel trolleys are recommended	Expose to very high temperature than recommended by Manufacturer
Immediately clean spillage of any oil or fatty liquid which may cause accident during people's movement	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 CG 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.
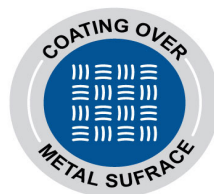
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