

Spartikote CG

Polyaspartic clear coating

Description

Spartikote CG is the new generation, polyaspartic clear floor coating for both internal and external applications over properly prepared and primed concrete substrates. Outstanding abrasion resistance, superior adhesion to concrete, rapid setting and resistance to a variety of chemicals make Spartikote CG the ideal choice for those whom time is the prime factor. Unlike conventional epoxies, Spartikote CG can be installed in just few hours, with the next-day return to service.

Polyaspartic chemistry

Polyureas have extremely short pot lives because of the rapid fire reaction between amines and polyisocyanates. Polyurethanes are slow reactive, because of the unhurried reaction between hydroxyl groups and polyisocyanates. Polyaspartic chemistry has overcome many of the practical difficulties of both polyureas and polyurethanes. It is a chemical reaction between hindered amines and aliphatic isocyanates. It is neither too fast nor too slow..

Uses

Spartikote CG is used in industrial and commercial facilities, commercial kitchens, pharma and food processing areas, exterior patios etc. It can be used on external areas because of its UV stability. It can also be used as fast setting top coat over epoxy existing flooring systems, with the advantage of rapid return to service.

Key features

- UV resistant and light stable
- Excellent bond strength
- Cures to full strength within an hour
- Excellent abrasion and impact resistance
- Can be applied in severe winter and during rains
- Excellent hot tyre pick up resistance
- No blushing at low temperature
- No blistering during rains
- Optical clarity.

Properties

Type	: Polyaspartic-aliphatic polyurea
Mixing ratio (R:H)	: 1 : 1 by volume
Finish	: Smooth and glossy
Colour	: Clear
Pot life @ 27°C ASTM D 2471	: ≥ 30 min
Volume solids ASTM D 2697	: ≥ 50%
Recommended DFT ASTM D 7091	: 100 microns
Drying time ASTM D 1640	
Touch dry	: ≥ 15 min
Tack free dry	: ≥ 25 min
Hard dry	: ≥ 8 hrs
Theoretical coverage	: 5 sq m/ litre / coat @ 100 microns
Application	: Roller
Recommended thinner	
Clean up	: PUT 502
Shelf life	: 12 months in the un-opened container

Performance data

Tensile strength ASTM D 638	: ≥ 6 MPa
Elongation ASTM D 638	: ≥ 20%
Abrasion resistance ASTM D 4060	: ≤ 30 mg loss
UV resistance ASTM G 154, 360 hours	: Passes

Directions to use

Concrete should be cured for at least 28 days so as to reach the residual moisture within the acceptable limit of 5%. The relative humidity in the concrete slab should not go beyond 80%. The rising moisture vapour emission rate must not exceed 14-15 gms per sqm over a 24 hour period as measured by calcium chloride method, ASTM F 1869.

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Surface preparation like grinding or shot blasting is done in order to achieve a surface profile of 150-200 microns. The recommended surface profile is SP-2 (Reference ICRI technical guideline No: 03732). Conduct CDS (clean, dry and sound) tests on the substrate before applying the primer.

Mix Spartikote CG resin and hardener in equal volumes for 2-3 minutes and apply as a clear coat over base layers. Allow to cure for 2 hours. The coated floors can be returned to service after 8 hours of post-cure.

Packaging

Spartikote CG is available in 5 and 20 litre packs and has a maximum shelf life of 12 months in the unopened containers

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.

Disclaimer

All information contained in this data sheet is given to the best of our knowledge but no warranty is made with respect thereto. This data sheet becomes invalid as soon as a new edition has been published. Please contact us for latest edition. Description and advice regarding Cipy's products are based on long term field and laboratory test carried out by us and guaranteed accurate.

No condition of warranty is given covering the results from the use of materials in the circumstances of any particular application, because the storage, handling and application of the materials are beyond our control.

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