CP DIELECTRIC FLOOR COATING

Colour Plus Polyurethanes Pvt. Ltd.
An ISO 9001:2015 Certified Company

Description

CP Dielectric Floor coating system is a heavy-duty epoxy floor coating system designed to provide high electrical insulation in industrial and sensitive environments. It combines excellent mechanical durability with superior dielectric strength, making it suitable for areas requiring electrical isolation, such as power stations, electronic assembly units, and control rooms.

Uses

USES OF DIELECTRIC FLOOR COATING

1. **Electrical Insulation Flooring**
   Provides a non-conductive, high-dielectric strength surface to prevent electrical leakage or arcing through the floor.
2. **Transformer and Switchgear Rooms**
   Ensures safety in high-voltage areas by electrically isolating grounded surfaces from energized equipment.
3. **Control Rooms & Substations**
   Used in power plants and substations to protect personnel and equipment from step and touch potentials.
4. **Electronics Manufacturing Floors**
   Offers protection from stray voltages and ensures consistent performance in sensitive environments.
5. **Laboratories & High-Voltage Test Bays**
   Ideal for testing environments requiring non-conductive flooring to simulate electrical isolation.
6. **Server Rooms and Data Centers**
   Prevents static buildup and provides an insulating layer under critical IT infrastructure.
7. **Cable Trenches and Vaults**
   Applied to floors where exposed cables and terminations are present, minimizing risk of accidental grounding.
8. **Clean Rooms with Sensitive Instrumentation**
   Supports high electrical isolation while offering chemical and abrasion resistance.

FEATURES & BENEFITS

- High dielectric strength for electrical insulation
- Excellent abrasion and impact resistance
- Seamless, non-dusting surface
- Resistant to chemicals, oils, and solvents
- Easy to clean and maintain
- Solvent-free, low odor formula

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Properties

Form	Part A – Base Part B – Hardener Part C- Filler
Mixed Density	1.70
Pot Life	30-40 minutes @ 25 degC
Tack free time	4-6 hours
Compressive Strength	> 60 MPa ASTM C579
Chemical Resistance	Wide range of acids, alkalis, solvent, petrol, diesel, lubricating oil etc.,
Flexural Strength	> 30 MPa ASTM C580
Shore Hardness	80-85 ASTM D2240
Dielectric Strength	25.82Kv/mm ASTM D149-20
Volume Resistivity	> 1×10^{15} ohm·cm ASTM D257

Additional Information

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COVERAGE RATE	PACK SIZE	SHELF LIFE
10 sqm/litre/coat	**Pack Size: 14.9 Kg** Resin: 4.6Kg Hardner :2.3Kg Filler :8 Kg	12 months from date of manufacture if stored in shaded and dry area.

SURFACE PREPARATION

- Surface must be sound, clean, and free of contaminants.
- Concrete moisture content must be below 5%.
- Surface preparation: mechanical grinding, shot blasting, or scarifying recommended.
- Apply suitable primer before coating.

APPLICATION METHOD

- Mix components A ,B And C thoroughly until uniform.
- Pour and spread using notched trowel or pin rake.
- De-aerate using spiked roller within 10 minutes.
- Apply in one or two coats depending on desired thickness.

Health and Safety:

- **Personal Protection**: Wear gloves, goggles, and suitable protective clothing during application.
- **Ventilation**: Ensure adequate ventilation during application to prevent inhalation of fumes.
- **First Aid**: In case of skin contact, wash immediately with soap and water. If eye contact occurs, flush with plenty of water for at least 15 minutes and seek medical advice.
- **Inhalation**: If exposed to excessive fumes, move to fresh air immediately. Seek medical attention if symptoms persist.

General Terms & Conditions

Users must always refer to the most recent data sheet. Upon request, additional copies will be provided. This technical data sheet is given in good faith and does not guarantee the optimum utility of the product always. The information contained herein is believed to be reliable to the best of our knowledge. Color Plus is exempted from all legal liability in case of injury incurred from product handing without appropriate technical precautions.
Color plus reserves the right to change the product specifications or properties. All orders are considered based on current delivery and sale infrastructures.

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