

BLACK PRIMER ESD

Description

High-performance conductive coating primer designed to enhance adhesion and conductivity of topcoats on various substrates. It is used in electrostatic dissipative (ESD) and electromagnetic interference (EMI) shielding applications

Uses

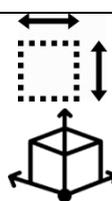
- It is suitable for grounding applications
- Improving surface conductivity in electronic assembly areas
- Reducing static discharge in sensitive environments
- Enhancing the durability of conductive coatings on industrial and commercial surfaces.

Features & Benefits

- Provides excellent conductivity
- Low in VOC
- Enhances adhesion of conductive topcoats
- Fast drying and easy to apply
- Compatible with various substrates
- Improves overall performance of conductive coating

Properties

Mixed ratio	3:1(Resin: Hardener)
Pot Life	40 minutes @ 25°C
Mixed Density	1±0.1
Adhesion to Concrete (ASTM D4541)	>3 Mpa (Substrate failure)
Conductivity	Surface resistance < 10 ⁶ ohms
Curing Time	Initial Cure: 4 hours Full cure: 2-4 days
Chemical Resistance (ASTM D1308)	Ground Water, Sea Water, kerosene, petrol, diesel and wide range of acid, alkalis and solvents.

Theoretical consumption	8-10 sqm/liter depending on substrate porosity
	PACK SIZES 5 liters/20 liters Bucket
	SHELF LIFE 12 months from date of manufacture if stored in shaded and dry area 25°C.

Additional Information

Application Methodology

- ❖ **Surface Preparation:** Ensure the surface is clean, dry, and free of dust, oil, or grease. Light sanding may improve adhesion.
- ❖ **Mixing:** Stir thoroughly before use to ensure uniform dispersion of conductive fillers.
- ❖ **Application:** Apply using a brush, roller, or spray in a uniform coat. Avoid over-application to maintain conductivity.
- ❖ **Curing:** Allow to dry fully before applying topcoat. Full conductivity is achieved after complete curing.

Storage and Handling:

- Store in a cool, dry place away from direct sunlight.
- Keep containers tightly closed when not in use.
- Avoid exposure to extreme temperatures.

Application Restrictions

- Bond strength will vary with method of surface preparation and degree of contamination.
- Not suitable for application at ambient temperature below 10°C and above 50°C. Pot life of mixed material will reduce at high ambient temperature.

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Health & Safety

Epoxy Putty should not come in contact with eyes or to be swallowed. Always ensure adequate ventilation and avoid inhalation of vapors. The applicator should wear appropriate clothes, gloves and goggles.

Use of barrier cream is recommended to provide additional skin protection. If comes in contact with eyes, flush with plenty of fresh water and seek medical advice. Disposal of Epoxy Putty blended waste material and spillages must be strictly carried out as per local environmental regulations.

Refer Material Safety Data Sheet or consult technical department for further details.

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.

Colourplus is exempted from all legal liability in case of injury incurred from product handling 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.