



FLOORSHIELD® ELECTROSHIELD™ ETC5400 PRIMER

Electrostatic Charge Conductive Epoxy Primer

PRODUCT DESCRIPTION:

FLOORSHIELD® ELECTROSHIELD ETC5400 is a two-component, electrostatic charge conductive & penetrating epoxy ETC5400/sealer used to prime and seal concrete surfaces. It is used as part of a complete **Floorkrete® ElectroShield™ Electro-static dissipation & conduction flooring system.**

BENEFITS:

- Low viscosity formulation penetrates and seals concrete pores.
- Provides superior adhesion to concrete and higher tensile and flexural strengths when compared to conventional polyamide ETC5400s Cures at ambient temperatures down to 10°C.
- Resistant to amine blush, even when cured at low temperatures and high humidity.
- Requires zero induction time.

USES:

APPLICATION

- Concrete floors and slabs
- Part of **ElectroShield** flooring requirement
- Where low-odor applications are desired

LOCATION

- Interior

SUBSTRATE

- Horizontal concrete floors and slabs

TECHNICAL DATA:

Parameters	Values
Product	Two component black colour primer
Coverage	45-65 ft²/Kg
Recoating Interval	3-4 hours, Depending on Temperature
Shore D Hardness	80-85
Drying Time	Surface dry: 30 minutes
	Touch Dry: 4-6 hours
Pot Life	30 minutes
Surface to Ground Resistance	10³-10⁶ ohms
Bond Strength	Not less than 1.6N/mm²



APPLICATION DATA:**PREPARATION:**

1. Ensure that floors are structurally sound and fully cured a minimum of 28 days with moisture content less than 5% in all location.
2. Repair concrete and install joint sealants and fillers as necessary. Use patching materials as appropriate.
3. Mechanical surface profiling is the preferred floor preparation method for both new and existing floors. It is the only acceptable preparation method where warranties are issued. Acid etching is not recommended. Mechanically profile the floor to medium-grit sandpaper texture. Remove curing and parting compounds and other surface hardeners and floor coatings in accordance with the manufacturer's instructions.
4. Measure the moisture vapor transmission rate (MVT) after shotblasting by conducting a calcium chloride test in accordance with ASTM F 1869.
5. If the test shows that a rate of 1.3 Kg/1000 ft² in 24 hours is exceeded, then **VapourGard®** Concrete Floor Primer is needed prior to the use of **FLOORSHIELD® ElectroShield™** flooring installation products.

MIXING:

1. This product has a limited pot life; complete all preparations before starting the mixing sequence.
2. It is very important to properly mix the components of this product together in the exact manner and sequence specified in the following instructions in order to form a stable mix and ensure proper film formation. Care should be taken such that combined material is mixed from top to bottom of mixing vessel to avoid any difference in ratio of part A and part B along the height of vessel. If not mixed properly, hardener will not be developed as need. Before combining Parts A and B, premix each separately. When mixing, wear protective gloves and goggles to avoid injury from splashes.
3. To mix **FLOORSHIELD® ElectroShield™ ETC5400** Concrete Floor Primer, pour the entire contents of Part B (Hardener) from the pail and insert into Part A in the bottom of the pail. Scrape out remaining material in the liner, being careful not to spill any. The Part A (Resin) container is oversized to allow for easy mixing.
4. DO NOT MIX BY HAND. Mix with a Jiffy mixer blade and an electric drill at very low speed for 3 – 4 minutes. Scrape sides of the container several times to ensure complete mixing. Keep the mixer blades immersed in the material to avoid introducing air bubbles.
5. Use primer within its pot life.

PLACING:



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1. Floor and atmospheric temperature must be between 16 – 27°C during the application of FLOORSHIELD® ElectroShield™ ETC5400 Concrete Floor Primer.
2. FLOORSHIELD® ElectroShield™ ETC5400 Concrete Floor Primer can be applied when the floor is surface dry (less than 5% moisture).
3. Apply the mixed material from a roller tray using a high-quality 3/8" (10 mm) woven roller at a rate of 45 – 65 ft²/Kg at wet 50 to 80 micron (approximate).
4. Install as evenly as possible, and avoid leaving excessive build-up in rougher areas. Complete coverage is required to ensure there are no pinholes or voids in the finish. Check the electric resistivity required.
5. Now floor is ready for application of FLOORSHIELD® ElectroShield™ system.

CLEANING:

All tools should be cleaned with suitable solvent or hot water immediately after use.

PACKING: 5/10 Kg Composite Pack

STORAGE:

Store in dry, frost-free conditions at moderate temperatures not greater than 25 °c.

IMPORTANT POINTS:

1. This product is not designed to provide complete hide and color coverage. If complete hide is required, use additional **ElectroShield™** Topcoats.
2. Floors should be sloped to drain to prevent standing water or chemicals. As with any surface, all spills should be removed as soon as possible to prevent a slipping hazard.
3. Do not thin with solvents unless advised to do so by Multichem.
4. Prepare substrate according to "Surface Preparation" portion of this document.
5. Do not apply to slabs on grade unless a heavy unruptured vapor barrier has been installed under the slab.
6. Always use protective clothing, gloves and goggles during use. Avoid eye and skin contact. Do not ingest or inhale. Refer to Material Safety Data Sheet for detailed safety precautions.
7. For industrial/commercial use. Products should be installed by trained personnel only.



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WARRANTY

Multichem warrants FLOORSHIELD® ElectroShield™ ETC5400 to be free from manufacturing defects as defined in this warranty. Manufacturing defects are considered to be those defects that occur due to the quality of the ingredients or from the manufacturing process itself. This warranty does not include labor costs and other costs or expenses associated with the removal or installation of FLOORSHIELD® ElectroShield™ ETC5400.

Because the Multichem does not perform the actual installation, it cannot be held responsible for the results of the application. Multichem specifically disclaims problems that occur due to weather conditions, structural movement, structural design flaws and application techniques.

This warranty is in lieu of all other warranties expressed or implied including the warranty of merchantability and fitness of purpose and of all other obligations or liabilities on Multichem part. Multichem neither assumes nor authorizes any person to assume for Multichem any liability in connection with the sale and installation of FLOORSHIELD® E ElectroShield™ ETC5400.

Because of constant improvement of manufacturing techniques and formulations, Company reserves rights to change this datasheet and its contents without prior notice.

