



ElectroShield ULC 5416

Electrostatic Conductive, 2 Pack Self Smoothing Polyurethane based
Topping

PRODUCT DESCRIPTION:

ElectroShield ULC5416 is a high build 2-component flexible polyurethane floor topping system, 0.5-2 mm thick designed to provide electrostatic control properties to varieties of substrates along with ESD footwear and other non-conductive floors.

BENEFITS:

- Seamless finish with very low maintenance
- Excellent adhesion to concrete, and steel, being flexible
- Very low shrinkage contributing to good dimension stability,
- High mechanical strength, both tensile and flexural,
- Resistance to oils, fuel, and many chemicals.
- Abrasion resistance.

USES:

APPLICATION

- Electronics Assembly and Production floors and slabs
- Warehouses
- Military, automobile and Aerospace
- Clean Rooms
- Computer Rooms
- Quality Control Labs

LOCATION

- Interior

PROPERTIES:

PROPERTIES	VALUES
	ElectroSHIELD ULD-5416
Coverage	1.70-2.00 Kg/m ² / 1 mm thick
Thickness	1.5 mm to 2 mm
Touch Dry Time	4hours
Compressive Strength	>40 N/mm ²
Shore D Hardness	>60
Static Dissipation, Surface to Ground Resistance, ANSI/ESD S 20 20 2014	10 ⁴ to 10 ⁶ ohms for 2mm thickness with conductive Primer, ElectroShield ETC 5400
Pot Life	30 Minutes
Min. Working Temperature	25 °C

Standard Colour: Gray.



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ElectroShield ULC-5416/2018/R2-20251031



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PRODUCTS SYSTEM:

PRODUCTS	PURPOSE	THICKNESS (µm)
1. FloorPrime® EP5104	Stabilization of floor	100-200
2. ElectroShield™ 5401 Tape	Conductive Tape	
3. ElectroShield™ ETC-5400 Primer	Conductive Primer	100
4. ElectroShield™ ULC-5416	Self-Leveling Top Coat	2000

APPLICATION DATA:

PREPARATION OF SUBSTRATE:

The substrate must be sound clean, and free of oil. Sandblasting is most effective. If, however, this not possible, vigorous wire-brushing or roughening with coarse emery paper may be resorted to. Scarifying/Sand blasting method should be another method for surface profile preparation. Degreasing with a solvent like acetone, benzene or toluene is then carried out.

PRIMING:

Since good wetting of the surface is required to obtain high bond strength, the Primer is first applied on the metal and concrete surfaces (or other substrate). After surface preparation, prime the surface with **Floorprime PU/FloorPrime EP** in one coat. Allow the surface to dry for 2 hours but not more than 24 hours, before application of top coat.

APPLICATION:

Before the primer coat sets, mix resin and hardener together. Mixing of the resin and hardener may be carried out with mechanical mixer using a drill motor, with suitable stirrer attached in place of drill bit. A Mechanical planetary mixer has been found to be particularly effective. Apply first coat to the primed surface.

Apply by metal trowel or dr. blade the mixed material to a required thickness. Once the coating is applied, de-aerate with spike roller to get better finish.

STORAGE AND HANDLING:

The material, when stored in their original containers and not exposed to undue heat or humidity as in outdoor open sheds, will have a minimum shelf life of 6 months. Store in dry, frost-free conditions at moderate temperatures not greater than 25 °C. As far as possible, direct contact mixed material with the skin should be avoided as they might cause irritation on sensitive skins. It is advisable to wash off the material immediately if it does come in contact with the skin.



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PACKAGING:

Pack Size: 20 kg composite pack

CLEANING:

Once the resin has set hard, it is very difficult to remove it. Before this occurs, it should be scraped off the tools. The resin still sticking to the tools or mixing vessels can be removed with a solvent like toluene, xylene or acetone.

STORAGE:

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

WARRANTY

Multichem warrants **ElectroShield ULC-5416** products 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 **ElectroShield ULC-5416** Products.

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 **ElectroShield ULC-5416** products.

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



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