

ELECTROGARD®

Coating
system for
dielectric
insulation

SHOCKPROOF

RELIABLE
& SAFE
COATING
SOLUTIONS

FLOORKRETE
Flooring your ideas...

Multichem
Creating long lasting solutions



Technology at work for you

Perfect dielectric insulation coating you need for safe operation

Electrical insulating coatings provide electrical protection for individual and collective protection for workers involved on electrical installations for voltages of 3.3 KV, 6.6 KV, 11 KV, 15 KV, 20 KV, 33 KV and 53 KV or more – generally used in conjunction with additional PP for worker safety.

High quality insulating coatings with excellent electrical insulation and mechanical properties are designed to resist impact, tears or punctures when protecting workers on LV, MV and HV switchgear and power systems.

Used when operating switchboards, live LV-HV switchgear, substations, transformers and electrical workstations, insulating floor coating protects workers against electrical shock by absorbing the power that can result from a short circuit or other electrical leak.

DO YOU KNOW ?

Electrocution kills nearly 30 Indians a day as per the survey done in the year 2019.

In developing countries like India, accidental deaths caused by electrocution are far more than the suicidal deaths.

ELECTROGARD® products are a high performance, single and two component electric insulation coatings. Based on epoxy and hybrid resin, each product provides a hard wearing surface finish for use in most heavy duty industrial and commercial premises.

The full range of **ELECTROGARD®** coatings from Multichem are thoroughly tested to guarantee compliance with all relevant standards.

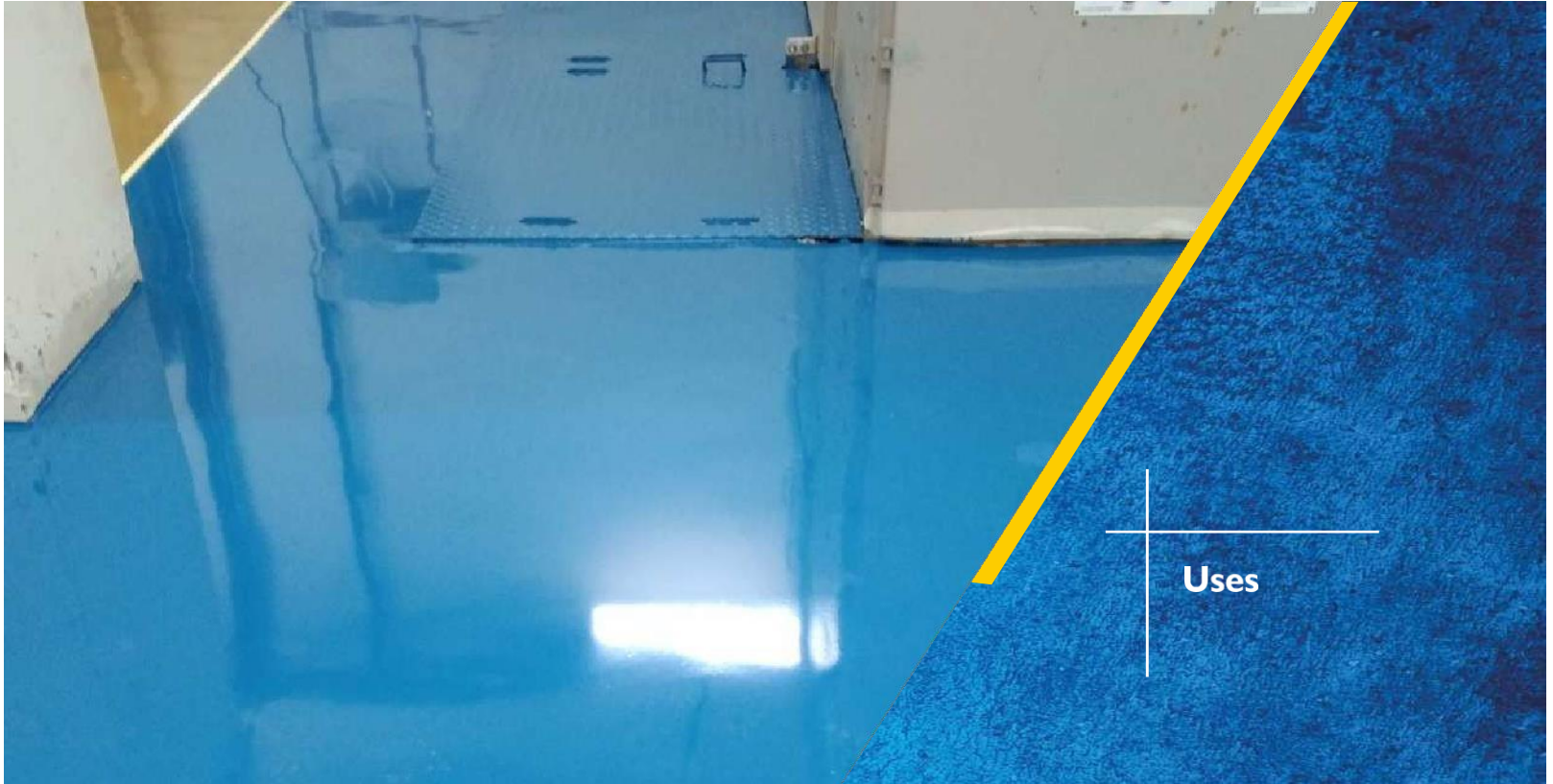
A photograph of a highly reflective, blue floor coating in an industrial setting. The floor is glossy and reflects the surrounding environment, including white equipment and a red door. A yellow diagonal line runs across the left side of the image.

SHOCKPROOF

RELIABLE
& SAFE
COATING
SOLUTIONS

YOU HAVE MANY BENEFITS

- ULTRAHIGH DIELECTRIC STRENGTH
- SEAMLESS COATING
- CHEMICAL RESISTANT
- ABRASION RESISTANT
- MORE THAN 10 YEARS OF LIFE
- HIGH COMPRESSIVE STRENGTH
- HIGH FLEXURAL STRENGTH
- ALMOST MAINTENANCE FREE
- SMOOTH AND GLOSSY FINISH
- HIGH BUILD & HIGH ADHESION



Uses

Not all coatings with
“High Dielectric Strength”
are created equal. Safety of
your team and plant is
important to us.

Application Areas

- Concrete & metal floors in electrical panel rooms, switchboards, live LV-HV switchgear & controlgear, AC rooms, transformer sub-station rooms, electrical workstation
- Bus bar, ceramic insulators, electric poles, cross arms, current carrying conductors, transformer structural support
- Large welding electrodes, sensors, collectors, electric testing tools, fittings, submersible motors, cathodes (partial insulation)

Location

- Interior and exterior

Substrate

- Horizontal & vertical surfaces

A blue textured background with a yellow diagonal line running from the bottom left towards the center.

**Flexible Solutions
for Your Electrical
Insulation Needs**

**Technologically advanced products provide a
TOTAL end to end solutions**

1. Epoxy based Electrogard® ELI Products
2. Special polymer based Single Component Electrogard® SLI Products
3. Epoxy based Electroscreed

Products For Specific Requirement :

1. **FLOORPRIME® EP** : Epoxy based primer for concrete
2. **FLOORSCREED® EP** : General purpose self-leveling epoxy coating



Properties	Values					
Products	Electrogard ELI-500	Electrogard ELI-1100	Electrogard ELI-2200	Electrogard ELI-3300	Electrogard ELI-5300	Electrogard ELI-8000
Breakdown Voltage, KV	5	11	22	33	53	≥ 60
Coverage, m ² /kg/thickness	6.0	2.0	1.25	0.80	0.45	1 m ² /kg/mm
Thickness Required, Microns	100	300	700	1100	1900	-
Touch Dry Time	2-5 Hours					2-5 Hours
Shore D Hardness	80-85					80-85
Compressive Strength	>60 N/mm ²					>86 N/mm ²
Flexural Strength	40 N/mm ²					48 N/mm ²
Bond Strength	>4.0 Mpa					>4.0 Mpa
Pot Life	30 Minutes					30 Minutes
Min. Working Temperature	25 °C					25 °C
Colour Available	Light Grey, Light Blue, Green, Signal Yellow, Dark Red.					

SINGLE COMPONENT ELECTROGARD®

Properties	Electrogard SLI-5	Electrogard SLI-11
Breakdown Voltage, KV	5	11
Thickness Microns	100-150	250-350
Dielectric Strength KV/mm	>50	
Temperature Resistance	>90°C	
Coverage	3.0m ² /Kg/100 micron	1.50m ² /Kg/250 micron
Colours	Light Grey, Light Blue, Green, Signal Yellow, Dark Red.	

EPOXY BASED ELECTROSCREED

Properties	Description
Breakdown Voltage, KV*	>22
Coverage Kg/m ² /mm	1.30
Compressive Strength N/mm ²	>45
Bond Strength Mpa	4.0
Colours	Light Grey, Light Blue, Green, Signal Yellow, Dark Red.

* For 1mm thickness

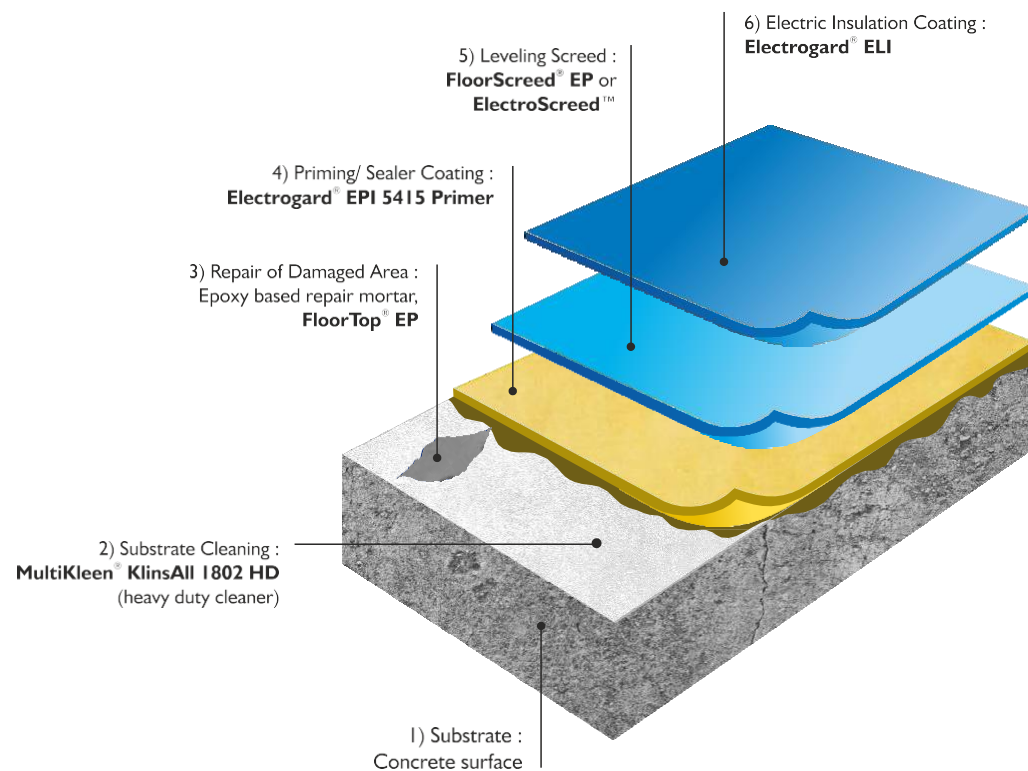
SYSTEM DESIGNS

SYSTEM



CONCRETE SUBSTRATE/FLOOR

Electrogard Epoxy System



APPLICATION GUIDELINES

Surface Preparation

All Surfaces

Remove all dirt, grease, oil, salt and chemical contaminants by washing the surface with pure strength cleaner/degreaser **MultiKleen**, commercial detergent or other suitable cleaner. Mold and mildew areas must be cleaned with a chlorinated cleaner or bleach solution. Rinse thoroughly with fresh water and allow to fully dry. All surfaces must be dry at the time of application.



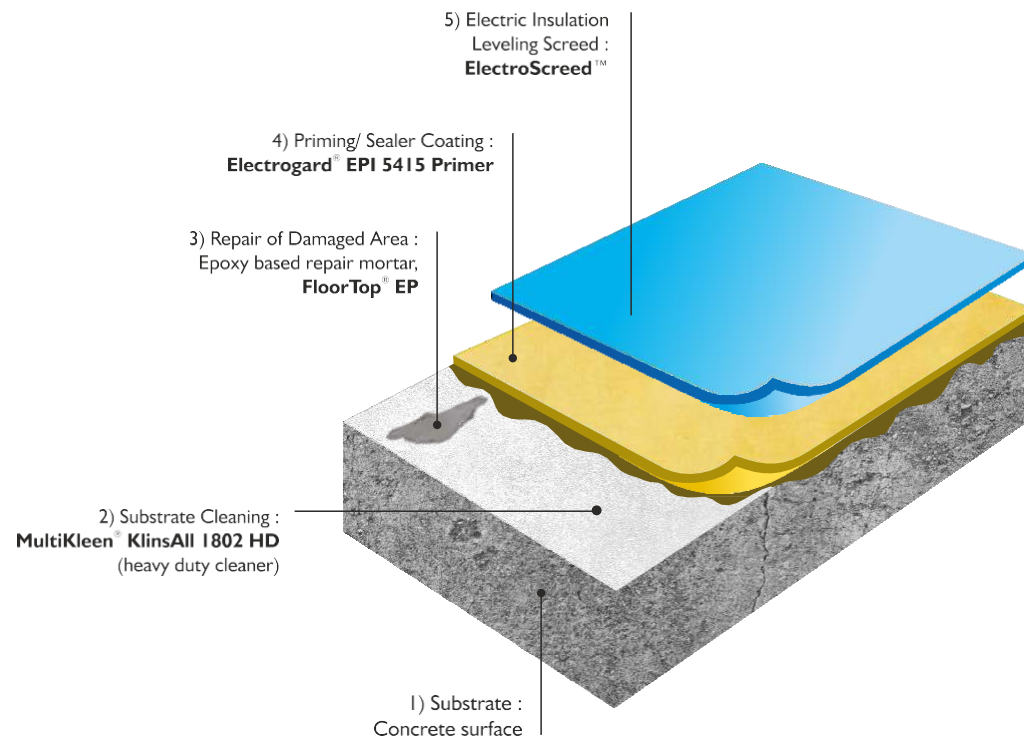
SYSTEM DESIGNS

SYSTEM



CONCRETE SUBSTRATE/FLOOR

ElectroScreed Epoxy System
(1 to 2 mm thick)



Concrete

1. Ensure that floors are structurally sound and fully cured a minimum of 28 days.
2. Repair concrete and install joint sealants and fillers as necessary. Use patching materials such as **FloorTop® EP** 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, to get concrete profile to CSP4 or more. Remove curing and parting compounds, 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 1.5 Kg / 1000 ft² in 24 hours is exceeded, then **VapourGard®** Concrete Floor Primer is needed prior to the use of **Electrogard®** system.
6. One coat of **VapourGard®** Concrete Floor Primer will reduce MVT by half. Multiple coats of **VapourGard®** Concrete Floor Primer may be required. Once the MVT is under 1.5 Kg / 1000 ft², the flooring installation products can be applied.

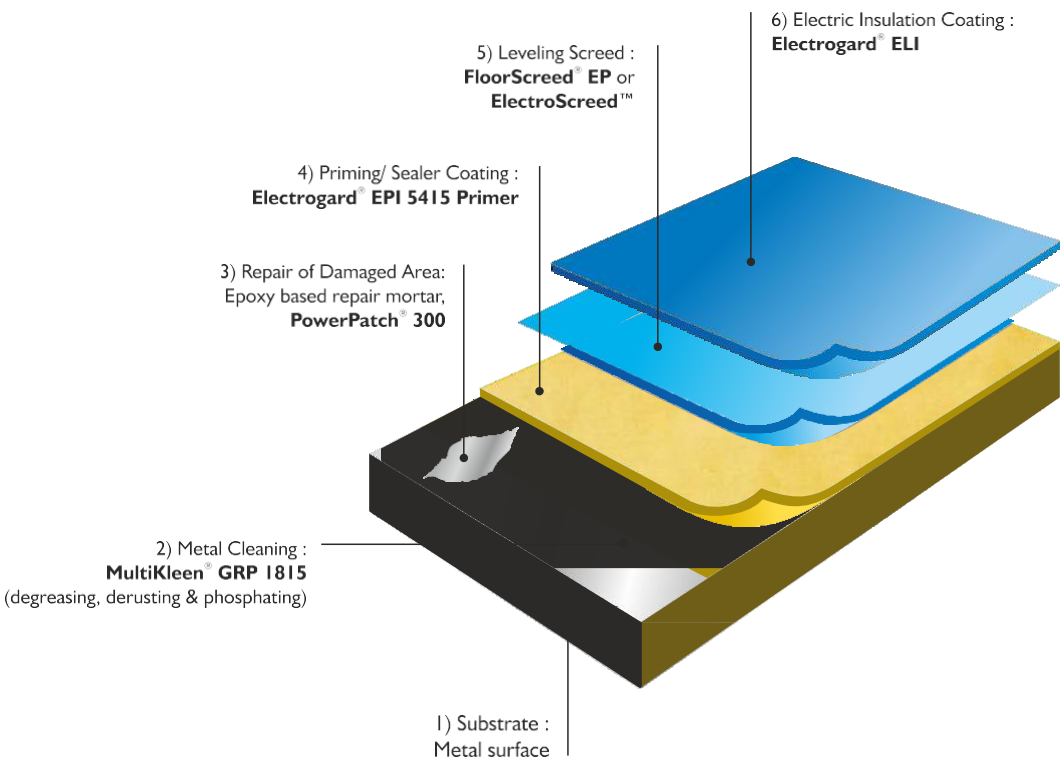
SYSTEM DESIGNS

SYSTEM



METAL SUBSTRATE/FLOOR

Electrogard Epoxy System



Metal

Abrasive blasting to a minimum Commercial Grade (SSPC-SP-6, NACE 3) with a 50-75 μ surface profile is recommended for optimal performance. Abrasive blast cleaned steel requires two coats of primer.

Previously coated surfaces must be sound and in good condition. Smooth, hard or glossy finishes should be scarified by sanding to create a surface profile. The **Electrogard®** is compatible with most coatings, but a test patch is suggested. **WARNING !** If you scrape, sand or remove old paint, you may release lead dust.



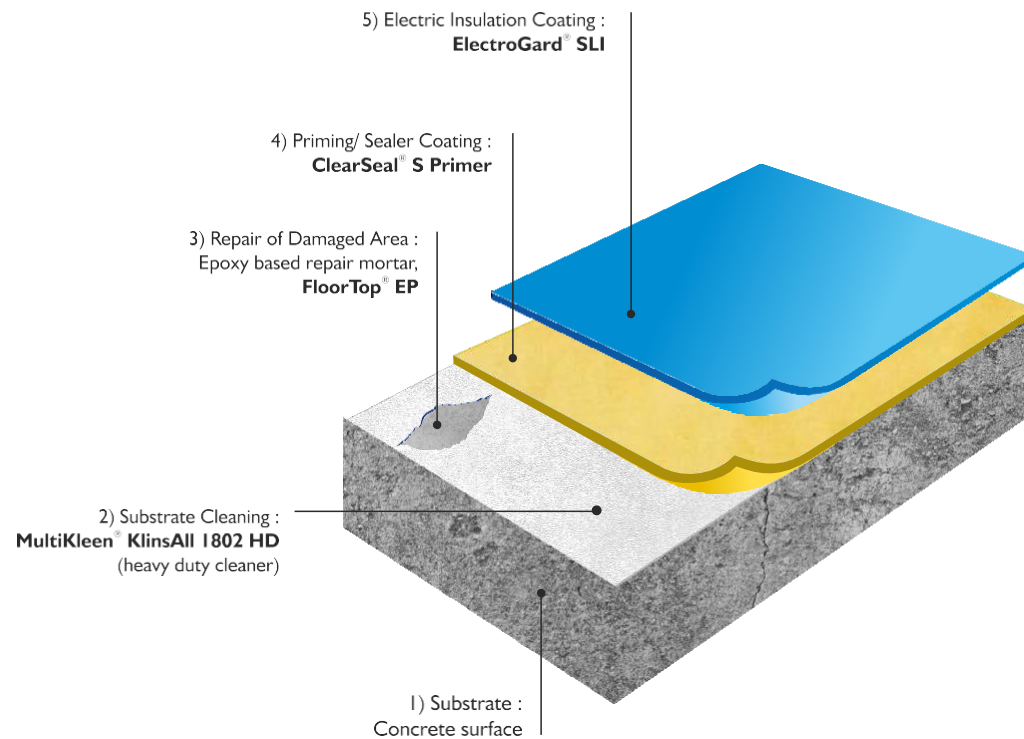
SYSTEM DESIGNS

SYSTEM



CONCRETE SUBSTRATE/FLOOR

ElectroGard Single Component System
(100 to 350 micron thick)



Placing

1. Surface and atmospheric temperature must be between 16 – 27°C during the application of **ElectroGard®** products.
2. Apply the mixed material from a roller tray using a high-quality 3/8" (10 mm) woven roller at a rate mentioned in technical details for desired thickness.
3. For higher thickness use suitable tools.
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.

Packing

Refer respective TDS.

Cleaning

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



Clients Trust
Our Care



NMDC



Cummins India



Kerneos India



Navel Dockyard

Coating
system for
dielectric
insulation



CUSTOM SOLUTIONS

for Electricals, Electronics and
Telecommunication Industries,
Control rooms of Industrial
Plants, AC Plant rooms,
Transformer rooms,
HT/LT Laboratories,
Battery storage area,
Solar Cell production area,
Generator rooms etc.

FLOORKRETE
Flooring your ideas...



PERFECT SOLUTIONS

All products are
manufactured to serve
specific requirement. We
will design the scheme for
your substrate as per your
need. Call us to get right
product and solution.



E-BUSINESS SOLUTIONS

We are also available at
www.multichem.shop
for online purchase of
material.

Multichem Group

Multichem Group came into
existence on 1st May 1993, in
Mumbai, India. Multichem
manufactures & distributes more
than 600 innovative products,
with 250 well known brands.
Our team of technical &
business professionals are
constantly striving to set new
industry standards for services,
quality & technical excellence.

Multichem
Creating long lasting solutions

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