

FLORCOAT 800 AS

2 component, epoxy water-based conductive, ESD coating.

FIELD OF APPLICATION:

FLORCOAT 800 AS is designed for use as protective coating on area where subjected to medium traffic, impact and surface is required without the risk of static build up floor. There are few recommended areas such as cleanrooms and hospitals, semiconductor production plant, pharmaceutical manufacturing plant, IT, and data centres and areas with moisture sensitive substrates.

PRODUCT DESCRIPTION:

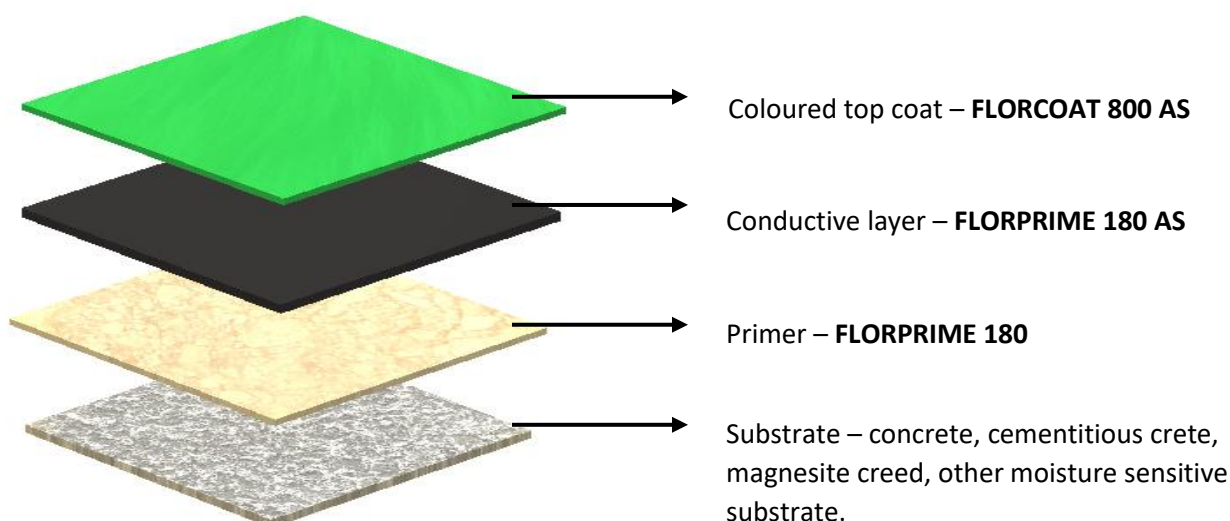
FLORCOAT 800 AS is a two-component epoxy resin, water based, coloured, semi-gloss, provide conductive (ESD) properties, with low odour and low emission of VOC. It also possesses excellent chemical resistance against wide range of chemical and good abrasion resistance against medium traffic.

BENEFITS:

- Highly conductive – can eliminate electrostatic discharge from human body, trolley, and vehicles.
- Water vapor permeable, and tolerant with moisture.
- Solvent free – non-flammable, non-toxic, environmentally friendly.
- Low VOC emission and low odor.
- Seamless and easy to clean.
- Excellent chemical resistance towards wide range of chemical, petroleum oils, solvents, and other cleaning agents.
- Good abrasion resistance against medium traffic and trolley movement.
- Hard wearing floor finish.
- Available in many colours.

SYSTEM BUILD UP:

Thickness – 0.4 to 0.7 mm





FLORTECH
FLOORING TECHNOLOGY

TECHICAL DATA:

Density	At 28 °C	1.40 g/cm ³
Viscosity	At 28 °C	Aprrox. 4000 mPas
Solid content	Part A + Part B	± 78 %
Application thickness	D.F.T per coat	20μ±50μ
Number of coats	2	
Bond strength	Concrete failure	>1.5 Mpa
Abrasion resistance	Per 1000 revolutions	Loss 5 mg
Water vapor transmission	g/h.m ² (ASTM E96/E96M-10)	±0.79
Wear Index	ASTM D 4060 -10 Taber Abraser	31 mg
Mixing ratio	By weight, Part A : Part B	4 : 1
Working time	At 28 °C	30 min
Packing size	Part A : Part B	20 kg : 5 kg
Recoating time	Within 14 to 18 hours.	
Shelf life	12 months in unopened original containers.	
Material consumptions	0.18 kg/m ²	
Complied ESD Standard	ANSI/ESD S-20.20-2007 BS 2050	

ESD Floor Main Checking Criteria and Specification

Conductive:

Surface to Ground (Earth) Rg Spec (BS-2050)	5E+4 MΩ ~ 5E+6 MΩ (1 x 10 ⁴ mega-ohm to 5 x 10 ⁶ mega-ohm)
Surface to Surface (Earth) Rs Spec (BS-2050)	5E+4 MΩ ~ 5E+6 MΩ (1 x 10 ⁴ mega-ohm to 5 x 10 ⁶ mega-ohm)

Dissipative:

Surface to Ground (Earth) Rg Spec (BS-2050)	5E+6 MΩ ~ 5E+9MΩ (5 x 10 ⁶ mega-ohm to 5 x 10 ⁹ mega-ohm)
Surface to Surface (Earth) Rs Spec (BS-2050)	5E+6MΩ ~ 5E+9MΩ (5 x 10 ⁶ mega-ohm to 5 x 10 ⁹ mega-ohm)

APPLICATION METHOD

Substrate Preparation:

Before applying the material, make sure to clean the substrate from any dust, contaminant, and loose particles. Apply **FLORCOAT 800 AS** directly onto the conductive layer of **FLORPRIME 180 AS**. The topcoat must be applied within the recoating interval of previous layer. Test whether **FLORPRIME 180 AS** has meet the requirement before applying **FLORCOAT 800 AS**.

Application:

Material temperature should be close to site condition before starting the application. Stir part A for 30 seconds by using suitable electrical stirrer. Then mix part B into part A for at least 2 minutes until it fully homogeneous. To ensure a homogeneous mixture, scratch unmixed material from pail wall and bottom and mix again thoroughly.

Next, pour the mixture onto the substrate and spread into desired thickness by tooth trowel No. 48 or No. 78. To achieve uniform thickness, the tooth blade must be regularly replaced. Finish the application with spike roller to remove entrapped air.

Cleaning:

Clean all tools and application equipment with water immediately after use.

Overcoating:

The surface shall be overcoated within 24 hours. Overcoating after 36 hours requires a grinding and cleaning of the coating.

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As all FLORTECH data sheets are updated on a regular basis, it is user's responsibility to obtain the most recent issue. Hard copies are available upon request.