

# FLORCOAT 570 AS

*2 components, epoxy conductive coating, gloss, coloured.*

## FIELD OF APPLICATION:

**FLORCOAT 570 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 Centre, warehouse, automotive assembly plant and research & development lab.

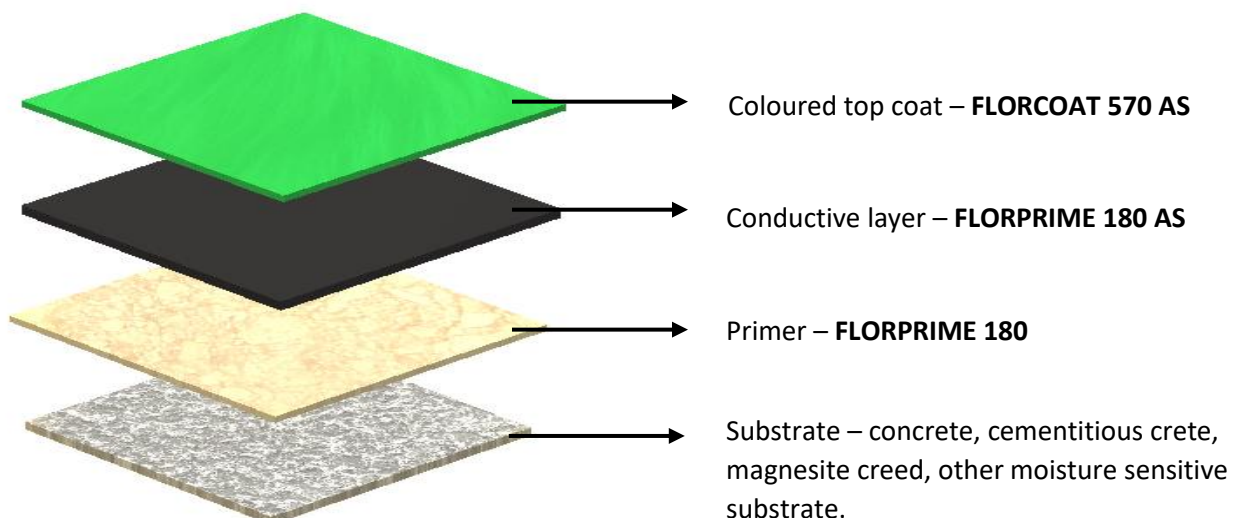
## PRODUCT DESCRIPTION:

**FLORCOAT 570 AS** is a two-component conductive epoxy resin, coloured, glossy finishes, 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 and trolley movement.

## BENEFITS:

- Highly conductive – can eliminate electrostatic discharge from human body, trolley, and vehicles.
- 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:





**FLORTECH**  
FLOORING TECHNOLOGY

**TECHICAL DATA:**

<b>Density</b>	Part A + Part B : At 25 °C	1.45 g/cm <sup>3</sup>
<b>Packaging size</b>	5 kg 10 kg	4 kg A + 1 kg B 8 kg A + 2 kg B
<b>Mixing ratio</b>	Part A : Part B	4 : 1 by weight (kg)
<b>Flexural strength</b>	DIN EN 196/ASTM C 109	> 35 N/mm <sup>2</sup>
<b>Compressive strength</b>	DIN EN 196/ASTM C 109	> 55 N/mm <sup>2</sup>
<b>Adhesive strength</b>	DIN EN ISO 4624	> 2.0 N/mm <sup>2</sup> (concrete failure)
<b>Abrasion resistance</b>	1000 cycles weight loss	< 5 mg
<b>Shore D hardness</b>	DIN EN ISO 868	74-83
<b>Complied ANSI/ESD S20.20-2007</b>		
<b>Human Body Voltage</b>	< 100 Volts	
<b>System resistance</b>	< 3.5E x 7 ohm (Ω)	
<b>Working time</b>	At 25 °C	Approximately 20 – 25 minutes
<b>Application temperature</b>	Min 3 °C above dew point	10 – 30 °C
<b>Material consumption</b>	Per mm	1.4 kg/m <sup>2</sup>
<b>Cure to withstand</b>	At 25 °C, Foot traffic Heavy traffic Exposure to chemical	After 24 hours After 3 days After 7 days
<b>Colours</b>	Flortech standard, other colour available upon request.	
<b>Shelf life and storage</b>	12 months in closed original containers at 10 – 30 °C, avoid direct sunlight.	

**ESD Floor Main Checking Criteria and Specification**

<b>Conductive</b>	<b>Surface to Ground (Earth) Rg Spec (BS-2050)</b>	1E+4 Ω ~ 9E+6 Ω (1 x 10 <sup>4</sup> ohm to 9 x 10 <sup>6</sup> ohm)
	<b>Surface to Surface (Earth) Rs Spec (BS-2050)</b>	1E+4 Ω ~ 9E+6 Ω (1 x 10 <sup>4</sup> ohm to 9 x 10 <sup>6</sup> ohm)
<b>Dissipative</b>	<b>Surface to Ground (Earth) Rg Spec (BS-2050)</b>	1E+6 Ω ~ 9E+9 Ω (1 x 10 <sup>6</sup> ohm to 9 x 10 <sup>9</sup> ohm)
	<b>Surface to Surface (Earth) Rs Spec (BS-2050)</b>	1E+6 Ω ~ 9E+9 Ω (1 x 10 <sup>6</sup> ohm to 9 x 10 <sup>9</sup> ohm)

**Substrate Requirement:**

Make sure substrate or screed have minimum 1.5 N/mm<sup>2</sup> adhesive pull off strength. The substrate must be clean, firm, dry and free from any dust, oil, loose particles, paint residues or other contaminants. Repair imperfection (holes and cracks) with an epoxy patching material such as **FLORPRIME 110** where necessary. First, prepare substrate by captive shot blasting or diamond grinding to achieve good surface profile for optimum mechanical interlocking. It is important to ensure the subfloor is float before proceeding to commence installation.

Always apply **FLORPRIME 180 AS** on a primer or a levelling layer. For the connection to the earth point, use copper tape min 50 cm into the surface. It is recommended to use minimum 2 earth points per each room and for each 100 m<sup>2</sup> one earth point.

**Mixing:**

First, mix part A (resin) for 30 seconds by using suitable mixer. Then pour part B (hardener) into part A and mix the material for another 2 minutes. Make sure to move the mixer from top to bottom, side to side to achieve homogenous mixing.

**Application:**

Pour the mixed material onto the substrate and spread with trowel or squeegee. Then, back roll with short nap mohair roller and set it to required thickness minimum **1 mm, 1.4 kg/m<sup>2</sup>** material consumption.

Do not apply the material when the relative humidity exceeds 90 % on the surface. Do not apply when the temperature below 5 °C and above 40 °C.

**Note for conductive system:**

Prior to the application of conductive coating **FLORCOAT 570 AS**, the conductive layer **FLORPRIME 180 AS** must be measured. Distance between the measurement points at least 50 cm. If the required conductive measurement value is not reached, further measurement must be carried out within the radius of 50 cm.

Area coating system	No of measurements (min)
< 10 m <sup>2</sup>	1 measurement/m <sup>2</sup>
10 – 100 m <sup>2</sup>	10 – 20 measurement
> 100 m <sup>2</sup>	10 measurement/ m <sup>2</sup>

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