

# FLORPRIME 180 AS

*2 component, water-based conductive, solvent free, black.*

## FIELD OF APPLICATION:

**FLORPRIME 180 AS** is used as conductive layer for conductive and anti-static top coat. It is recommended to use in electronic production facilities, hospitals, clean rooms, pharmaceutical and facilities that involving flammable gases and explosive materials.

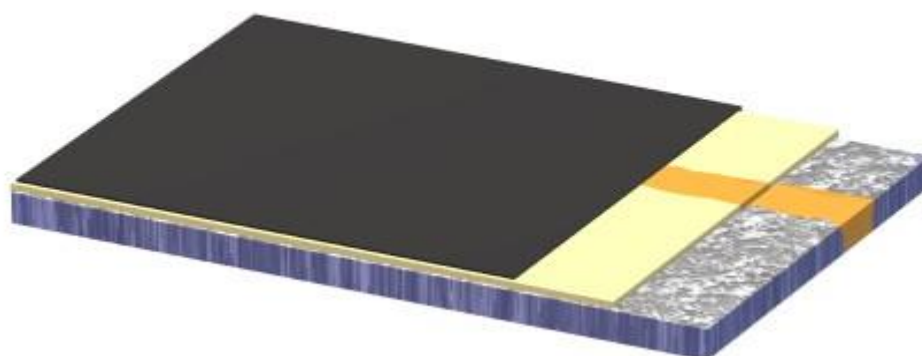
## PRODUCT DESCRIPTION:


**FLORPRIME 180 AS** is two component water based, solvent free and conductive layer that used below conductive coating materials and is always applied on a primer.

## BENEFITS:

- **Solvent free** – nonflammable.
- **Low VOC** – complies with environment requirement.
- **No odour** – user friendly
- **Highly conductive** – good electrical properties
- **Excellent adhesion** to concrete. Superior antistatic properties complied with EN 1081, EN 61340-4-1.

## SYSTEM BUILD UP:



	<b>Substrate</b>	:	<b>Concrete, cementitious crete.</b>
	<b>Primer</b>	:	<b>FLORPRIME 112 FC</b>
	<b>Conductive Primer</b>	:	<b>FLORPRIME 180 AS</b>
	<b>Copper Tape</b>		

**TECHICAL DATA:**

<b>Solid content</b>	Part A + Part B	60 %
<b>Density</b>	At 20 °C	1.16 g/cm <sup>3</sup>
<b>Packaging size</b>	Total Part A : Part B	5 kg 4.2 kg : 0.8 kg
<b>Mixing ratio</b>	Part A : Part B	4.2 : 0.8 by weight, add 8 to 10 % water (max 0.5 L per 5 kg)
<b>Adhesion strength</b>	DIN ISO 4624	> 1.5 N/mm <sup>2</sup> (concrete failure)
<b>Resistance to earth</b>	DIN EN 1081, DIN EN 61340-4-1	< 1 x 10 <sup>3</sup> Ohm ( Ω )
<b>Working time</b>	At 25 °C	Approximately 30 to 40 minutes
<b>Foot traffic</b>	At 25 °C	After 8 – 12 hours
<b>Consecutive layer</b>	At 25 °C	Within 26 – 24 hours
<b>Material consumption</b>	100 – 110 g/m <sup>2</sup>	
<b>Application temperature</b>	15 -25 °C (min 3°C above dew point)	
<b>Colours</b>	Black (matt)	
<b>Shelf life</b>	12 month in unopened original container. Store at 10-25 °C and always keep from freezing ( also during transport).	

## APPLICATION METHOD

### Substrate preparation:

The substrate must be clean, dry, firm and must have a pull off strength of 1.5 N/mm<sup>2</sup> minimum. Repair imperfection (holes and cracks) with an epoxy patching material such as **FLORPRIME 110** where necessary. Make sure to remove surface laitance, contaminants, coating, curing compound and all weak loose materials.

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.

### Application:

The product is delivered in ready to use 2 component containers in the exact mixing ratio. Before starting the application, the material temperature must be close to the temperature of site. First, premix both component A and B for about 2 minutes. Pour component B into component A and mix at 800 rpm for 3 minutes until homogenous. The incursion of air in the stirring process should be avoided.

To facilitate the rolling application, 8 to 10 % of water can be added to the mixture. The material must be constantly mixed during application to avoid settlement of heavy filler.

Pour **FLORPRIME 180 AS** into the substrate and spread it with squeegee and back roll with short hair mohair roller. Allow the material to cure minimum 12 hours and the next conductive topping can be applied after 24 hours.

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>

### Note for conductive system:

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

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