



# BestCoat EP707ESD

Aug. 2022 Version

Anti-static Epoxy coating, self-leveling, high strength, two components

**Description:**

BestCoat EP707ESD is an epoxy coating that offers anti-static, self-leveling properties. It is solvent-free, has high strength, and has optimum gloss.

The BestCoat EP707ESD is made from 100% pure epoxy, uses mineral silicates to strengthen the hardness, and specialized chemical additives to make it anti-static, flat, glossy, chemical resistant, abrasion-resistant, and optimum load-bearing capacity.

**Application:**

BestCoat EP707ESD is used to protect the surface of concrete floors where anti-static properties are required, such as:

- Factory manufacturing chips, high-tech semiconductors...
- Factory manufacturing and assembling electronic, optical components, high-precision equipment...
- High-tech battery and accumulator factory...
- Telecommunications data center, air traffic control room...
- Manufacturing plants, fuel storage warehouses against explosion caused by electrostatic sparks...
- Clean rooms, working areas with high requirements for electrical safety...

**Advantages:**

- A long-lasting anti-static property
- Static electricity risks can be effectively prevented
- High gloss and self-leveling capability
- Load bearing capacity, chemical resistance, and excellent abrasion resistance
- Meet the standards of microbiology, food safety, pharmaceuticals, GMP, and HACCP
- Compressive strength, tensile strength, and bonding strength are rapidly developed (Only 7 days).
- Anti-microbial, anti-moss; Easy to clean, maintain, and repair.
- Environmentally friendly

**PRODUCT DATA:**

**Packing:** 32 kg/set (20liter/ set)

**Shelf life:** 12 months from the produced date in the unopened pack.

**Color:** Light gray, green, Reddish-brown, and according to the customer's request

**Consumption:** 1.60 kg/m<sup>2</sup>/mm thickness.

**Application temperature:** Minimum: + 10°C (but above dew point temperature of 5°C)  
Maximum: + 40°C  
Relative humidity Max.: 80%

**Mixing ratio:** Part A: Part B = 7:1 (by weight)

**Pot-life:**

Ambient temperature	+20°C	+25°C	+30°C	+35°C
Pot-life (Minute)	90	55	40	30

**PHỤ GIA & HÓA CHẤT XÂY DỰNG BESTMIX® CONSTRUCTION CHEMICALS & ADMIXTURES**  
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**Curing times:**

Ambient temperature	+20°C	+25°C	+30°C	+35°C
Walkable (Hr)	48	40	24	24
Full cure (Day)	10	08	07	07

**Physical-Chemical properties:**

**Density:** Part A: 1.74 ± 0.05 kg/L at 25°C (Depending on color)  
 Part B: 1.00 ± 0.05 kg/L at 25°C  
 A+ B: 1.60 ± 0.0-5 kg/L at 25°C (Depending on color)

**Distribution particle size:** D<sub>max</sub>: 150µm

**Spreading capability:** D ≥ 200mm

**After 07 days of curing at 30°C:**

**Resistance's material:** 10<sup>4</sup> - 10<sup>6</sup> Ω

**Mechanical strength:**

Compressive strength (Mpa)	≥ 65	Bending strength (Mpa)	≥ 35
Bonding strength (Mpa)	≥ 1.5 (concrete failure)	Abrasion resistance (mg) (CS10/ 1000/ 1000)	≤ 65
Shore D hardness	≥ 75	Elongation (%)	≥ 0.7

**Thermal stability:**

Temperature	Time	Temperature	Time	Temperature	Time	Temperature	Time
50°C	Long-lasting	75 °C	07 days	100°C	12 hours	150°C	01 hour

**Environmental Information:** BestCoat EP707ESD conforms to the requirements of LEED EQ Credit 4.2: Low-Emitting Materials: Paints & Coatings SCAQMD Method 304-91 VOC Content < 100 g/l.

**GUIDE TO APPLICATION:**

**Coating system:** 01 layer BestPrimer EP702AS or BestPrimer EP703AS coating.  
 01 self-leveling coating BestCoat EP707ESD complies with the thickness required.

**Surface Condition:** Compressive strength of concrete: ≥ 20Mpa, Tensile strength: ≥ 1.5Mpa. Concrete surface have to be smooth, dense, dry. Concrete floor shall be cure for minimum 28 days. Cracks, defects must be repaired according to requirement. Impurities, fragments and dirt must be cleaned properly. If the surface is metal, wood ... then grease and rust must be completely removed and cleaned with BestThinner SC01.



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<b>Mixing:</b>	Pour part B into Part A under the right ratio. Use an electric mixer or special blender at low speed (300÷400 rpm) to mix material about 03 minutes or longer until material is homogeneous. If need to split quantity of material, should stir part A before weight.
<b>Applying:</b>	Pour the mixed mixture over the corresponding surface area with each parallel bed width 200 ÷ 300 mm, use a serrated scratching table suitable for evenly spreading materials thick required. Use a special spiked roller to aid in leveling and eliminating air bubbles. <b>Note:</b> Application space must ensure no dust and avoid insects the whole layer of material is wet (within 24 hours).
<b>Cleaning:</b>	Clean tools, equipments with dry cloth and BestThinner SC01 before hardening.
<b>Safety:</b>	BestCoat EP707ESD is a non toxic non flammable. However, should wear gloves, masks and glasses while handling the product. In case of accidental eye contact, wash with fresh water and seek medical advice immediately.

**Disclaimer:** *The technical information and application instruction in documents of BESTMIX based on BESTMIX's current knowledge and practical experience. The information here only describes the general nature of product, so users should test the product for each purpose. BESTMIX has the right to change features of our product, user must always refer the latest technology product.*

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