



STATIC-FREE F790 EPOXY ESD TOPCOAT

Two Components Anti-static Epoxy Topcoat
雙組份抗靜電環氧樹脂塗料系統

1.0 Description

Static-Free F790 is epoxy anti-static finishing materials that prevent the damages including personal, physical damage, adhesion of dust on floor, ceiling and walls subject to electrostatics, electric change and electric discharge. It is also a type of hygiene surface prohibiting development of bacteria and germs.

2.0 Technical Data

| | <u>Tested Value</u> | <u>Test Method</u> |
|--|---|------------------------------|
| Specific Gravity | 1.63 -1.69 | |
| Solid Content By Volume | 71% - 83% | |
| Pot Life | 8hrs(20 ⁰ C) 6hrs(30 ⁰ C) | |
| Over-coating | 24hrs(20 ⁰ C) 16hrs(30 ⁰ C) | |
| Recommended Dry Film Thickness | 40- 50μ | |
| Viscosity (25 ⁰ C) | 84 – 94ku | |
| Bond Strength | > 1.5N/mm ² (with concrete) | |
| Chemical Resistance | Excellent | |
| Abrasion Resistance | 95/ng (CS10/1000/1000) | DIN 53109 Table Abrader Test |
| Colour | Green and Grey | |
| Electrostatic Behaviour: | | |
| Resistance to earth R _E | 10 ⁵ – 10 ⁸ Ω | |
| Flooring-footwear resistance in comb. With person | 10 ⁶ – 10 ⁷ Ω | DIN IEC 61340-4-1 |
| Body voltage generation | < 100V | ESD STM 97.1-1999 |
| Thermal Resistance | | |
| <u>Exposure</u> | <u>Dry Heat</u> | ESD STM 97.2-1999 |
| Permanent | +50 ⁰ C | |
| Short-term max. 7 days | +80 ⁰ C | |
| Short-term max. 12 hours | +100 ⁰ C | |
| Short-term moist/wet heat* up to +80 ⁰ C where exposure is only occasional | | |
| *No simultaneous chemical and mechanical exposure | | |



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3.0 General Characteristics

- Excellent adhesion to concrete, cement surface and compatible Epoxy Coating.
- Tough and hard film and high abrasion resistance.
- Excellent resistance to chemicals.
- Floor of manufacturing facilities for electricity, computer, semi-conductor and electric parts.
- High resistance to aliphatic hydrocarbon solvents.
- The selection of color follows in possible one surface resistance and the part color is limited.

4.0 Typical Application

Static-Free F790 is suitable for those places requiring high dustproof functions such as clean room in the electronics industry, pharmaceutical factory, operation room and germ-free rooms of hospital.

5.0 Application Details

(A) Substrate Preparation :

All surfaces should be sound, clean, dry, free of dust, oil, grease or other contamination. Loose matter should be removed by abrasion, compressed air or high-pressure water.

(B) Static-Free F760 must be mechanically mixed using a slow speed drill (300 – 400rpm). Prior to mixing stir part A mechanically. When all of part B has been added to part A, continuously mix for 3 minutes until a uniform mix has been achieved. To ensure thorough mixing pour material into another container and mix again to achieve a consistent mix.

(C) Application Method

Air Spray

Diluting Ratio or Viscosity: 10-15 Sec (Ford Cup #4)

Nozzle Orifice : 1.8 – 2.0 mm

Spraying Pressure : 3.5 Kg/Cm²

Thinner

Eddlacquer thinner

Volume of Thinner 10 ~ 5 %

6.0 Coverage

@ 0.16kg / M² Approx. ±5%

7.0 Health and Safety

Static-Free F790 contains solvents and is harmful to eyes and skin. Use old or protective clothing and rubber gloves. When spraying, use face visors. Do not smoke in vicinity and allow adequate ventilation.

8.0 Cleaning

Tools can be cleaned after use in any aromatic solvent.

9.0 Packaging

18kg/set (Part A + Part B)