

## Transparent antistatic coating solution DENATRON F-120CD

### Features

- Based on conductive polymer (PEDOT:PSS)
- High Durability & High Clear
- The Water & Alcohol based dispersion

### Applications

- Antistatic coating
- Optical film
- Packaging film
- Industrial materials

### Liquid properties

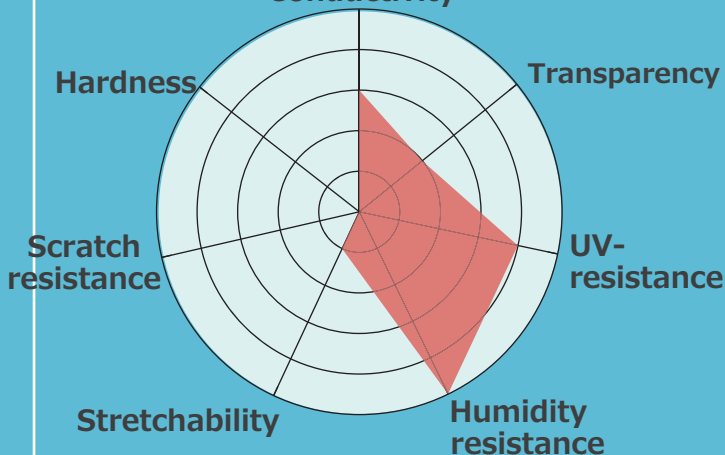
Item	F-120CD
Appearance	Dark blue
Main components	Conductive polymer Additive
Main solvent	Water
pH	2~3
Viscosity	10~100 mPa · s
Solid content	1.7 wt%
Shelf life (1~25°C)	> 6 months

### Recommendations for coating

Item	Additives
Dilute solution	Water, Methanol, Ethanol, IPA
Binder resin	Acrylic, Urethane, Olefin, Ester-based emulsion type, Water-soluble epoxy, Silicate
Leveling agent	Siloxane, Polyether Fluorine compound,
pH	2 ~ 10

### Coating film properties

#### Conductivity



	Mixing ratio(wt%)			Usage (cc/m <sup>2</sup> )	Sheet resistance (Ω/sq.)	Total transmittance (%)
	F-120CD	Binder resin	Dilution solvent			
ex.1	50	3	47	8	2×10 <sup>3</sup>	97
ex.2	8	6	86	4	2×10 <sup>5</sup>	>99
ex.3	4	3	93	4	2×10 <sup>8</sup>	>99

Binder resin : Acrylic resin emulsion (solid content 20wt%)  
Dilution solvent : Water 50wt%+IPA 50wt%

■ Test condition  
UV-resistance test : UV irradiation 1000hr  
Humidity resistance test : 85°C 85%RH 1000hr  
Scratch resistance test : Rubbing with a cotton, Water, Solvent

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DENATRON website

More Information

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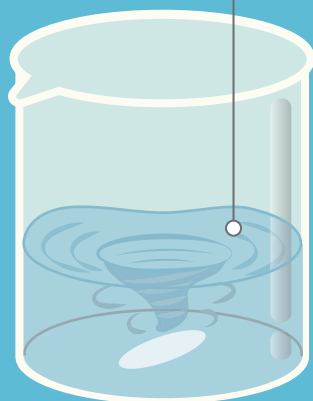


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### The direction how to ready ink

Dilution solvent



Additive



F-120CD



**1** Ready for dilution solvent.

※ Recommended solvent :  
50% Hydrous Ethanol.  
(Water 50wt%+Ethanol 50wt%)

**2** Add the additive with mixing.

**3** Add F-120CD slowly with mixing.

### Coating method

**1** Can be used with a variety of coating method.

Coating method such as wire bar coaters, spin coaters, gravure coaters, spray coaters, dip coaters.

Recommended substrates are plastic film ( PET, PMMA, TAC, PC, etc. ) and glass.

**2** Dry for 1 minutes to 2 minutes using a oven at 80°C to 130°C.

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