

Transparent antistatic coating solution

## DENATRON CD-100

### Features

- Based on Single-walled carbon nanotube (SW-CNT)
- Excellent in UV-resistance
- High Clear & Low Haze
- The Water & Alcohol based dispersion

### Applications

#### Antistatic coating

- Optical film
- Packaging film
- Industrial materials

### Liquid properties

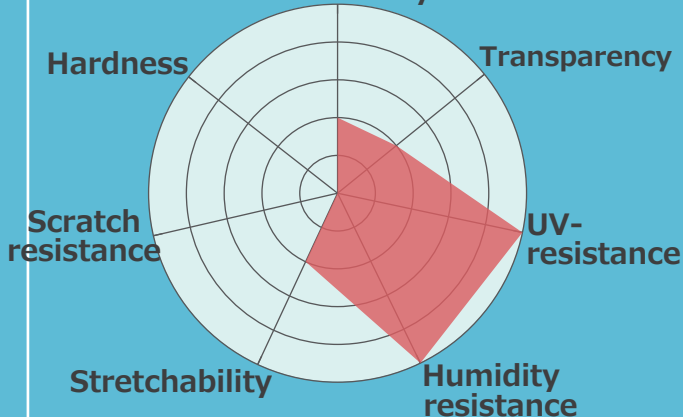
Item	CD-100
Appearance	Black
Main components	Conductive agent
Main solvent	Water · Alcohol
pH	6~8
Viscosity	1~15 mPa · s
Solid content	0.6 wt%
Shelf life (1~25°C)	> 6 months

### Recommendations for coating

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

### Coating film properties

#### Conductivity



	Mixing ratio(wt%)			Usage (cc/m <sup>2</sup> )	Sheet resistance (Ω/sq.)	Total transmittance (%)
	CD-100	Binder resin	Dilution solvent			
ex.1	50	1	49	4	2×10 <sup>5</sup>	97
ex.2	20	5	75	4	2×10 <sup>6</sup>	>99
ex.3	4	1	95	4	3×10 <sup>7</sup>	>99

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

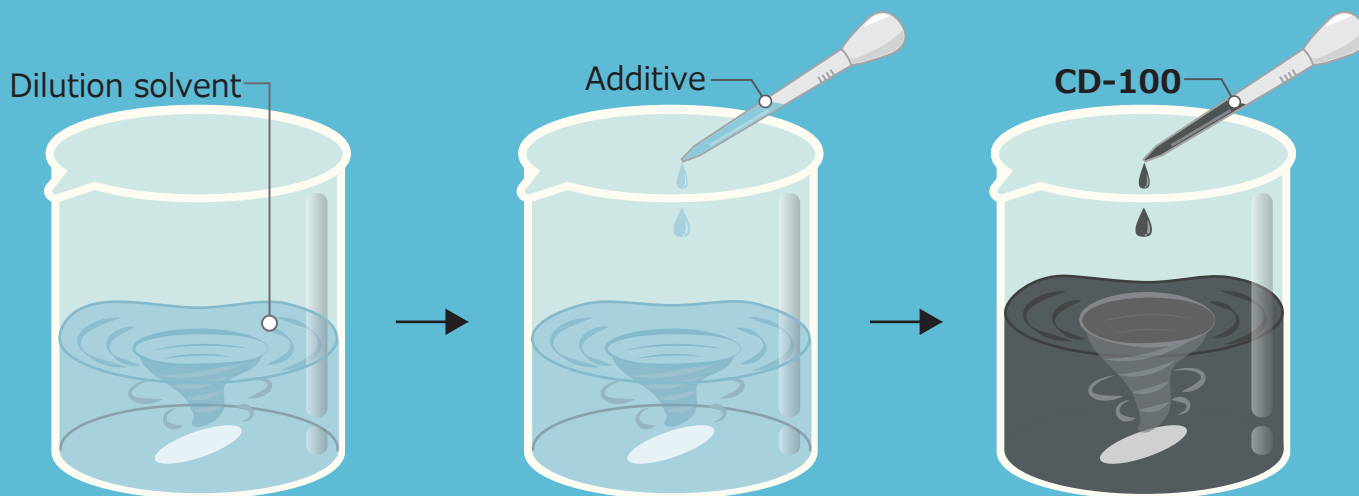
#### Test condition

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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We apologize the published stuffs might be changed without any notice.

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### The direction how to ready ink



**1** Ready for dilution solvent.

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

**2** Add the additive  
with mixing.

**3** Add CD-100 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, 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 120°C.

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