

Products

Functional Materials

Electro-conductive Materials ET·FT·SN·FS Series

Characteristics

Application

IR-shielding ability

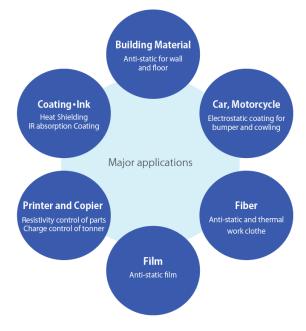
Characteristics of ISK's electro-conductive materials

ISK's electro-conductive materials consist of antimony-doped tin oxide (ATO), which is an electron conductor. The materials show excellent conductivity and absorption of near infrared rays (heat rays).

The following four types of products are available.

ET series: White electro-conductive titanium dioxide, spherical type FT series: White electro-conductive titanium dioxide, acicular type SN series: Transparent electro-conductive materials, spherical type FS series: Transparent electro-conductive materials, acicular type

Major applications: Conductive primer for electrostatic coating, Anti-static coating (building material, floor, film), Anti-static ink, Anti-static resin and fiber, Heat shielding coating (film), Thermal fiber

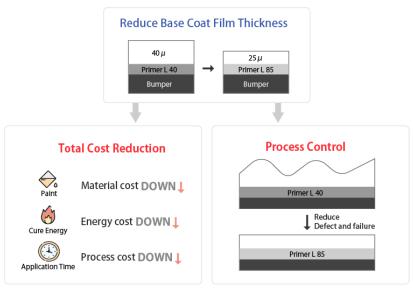


Electro-conductive primer for electrostatic coating

An electrostatic coating on a plastic bumper needs an electro-conductive primer.

Even though a grey electro-conductive primer with carbon black is usually applied as an electro-conductive primer, a white electro-conductive primer with our white electro-conductive titanium dioxide works better for making a thinner white base coat film with enough opacity.

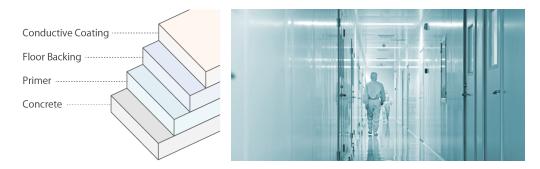




A thinner base coat film reduces the material cost of the coating, the energy cost for curing, and the application time.

A thinner base coat film reduces defects and failures caused by thicker coating films.

Anti-static coating



Example:

PCM coating, floor coating

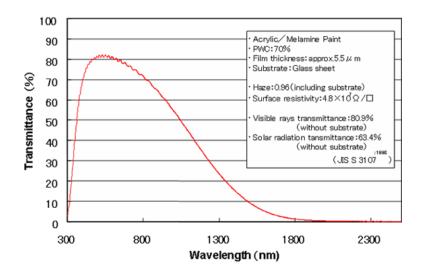
Properties:

Excellent storage stability, chemical resistance, low humidity dependence, and color matching.

IR-shielding ability of SN-100P

Bellow graph shows transmittance curve of SN-100P coating.

Infrared rays are absorbed due to the plasmon absorption of free electrons of SN-100P.



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