Technical Information No. 170701-E

Electrically Conductive Heating Paint

CSG-IRE 550

2 Ohm / Quadrat / 75 µm *

Characteristics:
Aqueous, solvent-free, electrically conductive low-resistance Acrylatedispersion.

Specification:			**following**:
Color:			Black
Solid content	%	56	ISO 3251
PH value		8	ISO 976
Viscosity	mPas	3000	ISO 2555
VOC	g / L	<0.2	
Pigment	µm	= <40	D90
Pigment	µm	13	D50
Other characteristics			
Density	g / ml	1.25	ISO 2811-1
SD Value	m	0.1 m	ISTM
Film properties:			
Resistance, electr.	Ω / □	2 - 4	ISTM
Film resistance (24h)	° C	> 120	ISTM
Tensile strength	N/mm²	2.3	ISTM
Productivity (200µm)	m²/L	5	ISTM (wet)
Curing proposition :			
Sintering temperature	° C	120	ISTM
Sintering time (thickness)	Min	2-10	ISTM
Speed (band)	m/min	5-10	ISTM
Storage:			
Shelf life (month)	M	12	ISTM
Frost stability (zycle)	F/H	5	ISTM (frost/heat)

In original sealed containers are COATING SUISSE dispersions and Varnishes are 12 months from delivery at 20 ° C storable. The Recommended storage temperature is + 5 until + 25 ° C. Freezing or temperatures above 30 ° C can adversely affect the viscosity and thus the average particle size and lead to sedimentation or coagulation. A Contamination with Bacteria, fungi or algae can irreversibly damage the product.

However, storage for longer than 12 months from the date of shipment means not necessarily that the product is useless. Before using a longer stored product, you first need the values of the specification check. A guarantee or liability after expiry of the 12 months COATING SUISSE GmbH does not accept. The product must be stirred in each case.

Delivery:
Plastic cans 1 liter (sample container)
Plastic canister 5 liters (20 liters / carton)

Processing:*
Particularly suitable and recommended for machine processing by means of Rackel / R2R, or Screen Printing. The paint is ready for use. The best adhesion is achieved on hydrophilic substrates or with primers hydrophilically modified surfaces / films.

Application:
Particularly suitable for the production of electrically conductive Low-resistance films and coatings. By diluting with water or Binder, the varnish is adjustable in its electrical spectrum.

Hazard identification:
For product safety, please refer to our current
Material Safety Data Sheet. Preservatives MIT & BIT.
SZID no / Application: SZID 236308
According to RID / ARD no hazardous material
GHS : invironment

Hints:
• (*) These are general information only. The values given are not part of the product specification.

• Electrically homogeneous and "hot spot" free heat (IR) radiation is obtained only with a mechanical coating! Rolling, spreading or spraying does not always result in 100% homogeneous layer thicknesses.

• Contaminants can be cleaned easily with water and a little detergent.