Special thermographic spray paint with high emissivity and mechanical resistance for low temperature applications up to 100 °C. The

precisely defined dependence of the emissivity on the wavelength and the viewing angle of the infrared camera enables to achieve very Yield of paint 0.5 m²



High emissivity

· use effective emissivity for non-contact surface temperature measurement using infrared camera for correct angle of measurement

precise results of thermographic measurements.

· effective emissivity mentioned below is valid for infrared cameras operating in the wavelength range of 7.5 – 13 µm (commonly used infrared cameras)

Low transmissivity

• band transmissivity up to 1.5 % for the wavelength band 7.5 - 13 µm (commonly used infrared cameras) More parameters on the web:

- Spectral dependence of normal emissivity
- · Spectral dependence of transmissivity

Table: Directional dependence of effective emissivity for band $7.5-13 \mu m$

Angle (°)	5	10	20	30	40	45	50	60	70	80
Emissivity (-)	0.963	0.961	0.959	0.954	0.947	0.941	0.931	0.899	0.823	0.661

Other properties

- coating thickness 30 μm (according to recommended application)
- coating roughness Ra = 0.8 μm, $Rz = 9.6 \mu m$
- electrical resistance 8.83*10¹⁵ Ω

Hiah mechanical resistance

Thermal conductivity

- 0.75 W/mK (50 °C)
- 0.70 W/mK (100 °C)

Chemical composition

· acetone, n-butyl acetate, butane-1-ol, propane-2-ol

- 1. Abrade the surface, clean it, dry it and get rid of grease. Cover other areas where spraying is not to be
- 2. Shake the container for two minutes and make a test spray.
- 3. Spray slowly over the material from a distance of 25-30 cm. Apply four thin layers, wait for a while and apply four thin layers again.
- 4. Spray at temperatures 15-25°C. Paint hardening occurs after two
- 5. After use, turn the container upside down and clean the valve by pressing for a few seconds.

Mechanical resistance

Optical properties guaranteed





Optical properties