Lab IR Paints

Washable thermographic paint for special applications

Washable thermographic spray paint with high emissivity for special applications at room temperatures. The paint can be easily removed with water without the use of harsh mechanical methods or chemicals. Ideal for the measurement where permanent use of paint is not possible. The precisely defined dependence of the emissivity on the wavelength and viewing angle of the infrared camera enables to achieve very precise results of thermographic measurements.

Yield of paint 0.5 m²

More parameters on the web:

- Spectral dependence of normal emissivity
- Spectral dependence of transmissivity

Optical properties

High emissivity

- use effective emissivity for non-contact surface temperature measurement using infrared camera for correct angle of measurement
- 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 0.5 % for the wavelength band 7.5 – 13 µm (commonly used infrared cameras) for room temperature

Table: Directional dependence of effective emissivity for selected temperatures for band 7.5 – 13 µm

Angle (°)	5	10	20	30	40	45	50	60	70	80
Emissivity (-)	0.973	0.961	0.968	0.961	0.956	0.953	0.949	0.943	0.928	0.897

Other properties

Other properties

- coating thickness 100 µm (according to recommended application)

Washable paint

Chemical composition

- ethanol, diethyl ether, carbon black, titanium dioxide, xylene

Instructions

1. Abrade the surface, clean it, dry it and get rid of grease. Cover other areas where spraying is not to be applied.

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 two thin layers.

4. Spray at temperatures 15 - 25 °C. Paint hardening occurs after two hours.

5. After use, turn the container upside down and clean the valve by pressing for a few seconds.

Washable paint

Optical properties guaranteed

for room temperature

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