

## Retroreflectometer 45/0

- Portable, accumulator-powered and sturdy precision reflectometer for the determination of whiteness, lightness, opacity and hiding power of paints, inks and coatings
- For the determination of the luminance factor  $\beta$  for dry road markings.

Whiteness describes the appearance of a white coating. As there does not exist absolute white, there will be used the percentage of chromatic pigments deviating from absolute white as the tone of a white pigment (DIN 55980) for the characterisation. A high degree of whiteness means a small tone of a white pigment.

For measuring the opacity, a uniform film of coating has to be applied on a black and white test chart. After drying, the application can be measured by using a reflectometer 45/0 degree. Make one measurement on the black area and one on the white area of the test chart.

The obtained measuring results are in percent. With these two measuring results the opacity can be calculated as follows:

formula:  $Y_{\text{black}} / Y_{\text{white}} \times 100\% = \text{opacity (\%)}$

Whereby 100% opacity means 100% hiding, there will be no difference between the application on the black and white part of the test chart.

Specification	
measuring accuracy	$\pm 1\%$
measuring sensor adaption	V( $\lambda$ )
light source	LCD, 3 1/2 digits
power supply	integrated, rechargeable accumulator
dimensions(LxWxH)	190 mm x 53 mm x 110 mm (7.48" x 2.09" x 4.33")
weight	1 kg (2.205 lbs)
Standard	ISO 2814, DIN 55984, EN 1436

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