

## Reflectometer 45/0°

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°. 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:

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

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



### Technical specifications

#### Measuring accuracy

+/- 1%

#### Measuring sensor

Adapted to V (λ)

#### Display

LCD, 3 1/2 digits

#### Lamp

Halogen lamp, standard illuminant C

#### Power Supply

Integrated, rechargeable accumulator

### Standards

ISO 2814, DIN 55984, EN 1436

### Physical specifications

#### Dimensions

190 mm x 53 mm x 110 mm

#### Weight

1 kg

#### Opening area

40 mm x 15 mm (L x W)

#### Measuring area

9 mm x 7 mm (L x W)

#### Bearing area

192 mm x 52 mm (L x W)

### Standard extent of delivery

1 reflectometer, 1 working standard, 1 zero standard, 1 battery charger, 115V of 230V, 1 connection cable, 1 spare lamp with allen key, 1 screw driver, 1 certificate of manufacturer, 1 certificate of calibration, 1 carrying case

### Options

Test charts, film applicators