

www.rhopointamericas.com

RHOPOINT

Concrete Clarity Meter



- DOI METER
- HAZE METER
- 20/60° GLOSSMETER

Proud members of:



QUANTIFY SURFACE QUALITY

The Rhopoint IQ Concrete Clarity Meter measures reflected image quality; it is the only hand held instrument that profiles *how* light is reflected from a surface. Glossmeters are usually used to measure the "shininess" of a surface but are not sensitive to common effects which reduce appearance quality.

DISTINCTNESS OF IMAGE (DOI) – A measure of how clearly a reflected image will appear in a reflective surface and is used to quantify effects such as orange peel and surface waviness.

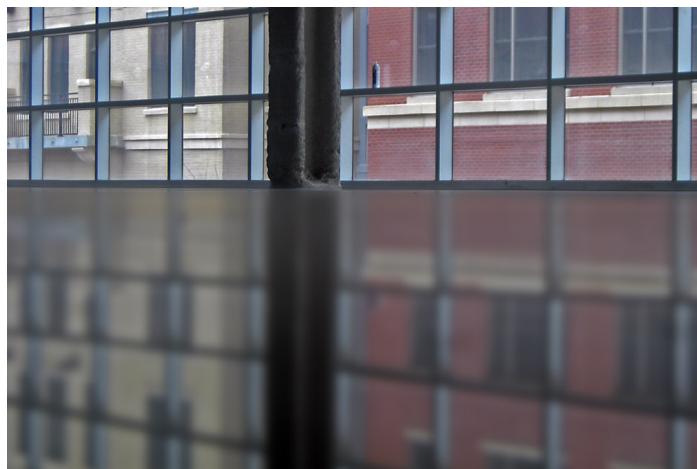
Orange peel dramatically reduces appearance quality without affecting gloss readings. The Rhopoint IQ Concrete Clarity Meter with DOI measurement can quantify the differences.



Surface with poor DOI

Image courtesy of Curviello Concrete

Haze is a common problem associated with coatings and polished materials. Surfaces with haze have a "milky" finish with a "shallow" reflected image. This important characteristic is directly measured with the Concrete Clarity Meter.



Surface with high haze

Image courtesy of Curviello Concrete

REFLECTANCE HAZE – An optical effect caused by microscopic texture or residue on a surface.

Visible Symptoms: A milky finish is apparent on the surface with a loss of reflected contrast. Halos and patterns can be seen around reflections of high intensity light sources.

Causes: Resin transfer, lack of refinement, burnish and polishing marks, fine scratches, poor cleanliness/surface residue.

CONCRETE POLISHING COUNCIL POLISHED CONCRETE APPEARANCE CHART*



Replaces CPAA finished gloss chart

LEVEL	NAME	DISTINCTNESS OF IMAGE (DOI) GLOSS	IMAGE CLARITY VALUE, %	LEVEL
1	Flat (Ground)	Images of objects being reflected have a flat appearance.	0-9	<10
2	Satin (Honed)	Images of objects being reflected have a matte appearance.	10-39	
3	Polished	Images of objects being reflected do not have a sharp and crisp appearance but can be easily identified.	40-69	
4	Highly Polished	Images of objects being reflected have a sharp and crisp appearance as would be seen in a near-mirror like reflection. May require grouting.	70-100	

DISTINCTNESS OF IMAGE (DOI) GLOSS – DOI is the sharpness of images of objects produced by reflection at a polished surface, sometimes called image clarity.

Measurement by Image Clarity Meter (ASTM D5767): The DOI, Image Clarity Value, obtained from this test method, range from 0 to 100 with a value of 100 representing perfect DOI (image clarity).

HAZE – Haze is the cloudiness or milky appearance of images of objects produced by reflection in a polished surface.

Measurement by Glossmeter (ASTM D4039): The Haze Index, obtained from this test method, is computed using the numeric difference between the value of specular gloss at 60° and the value of specular gloss at 20°.

MEASUREMENTS FOR COMPLIANCE – The Image Clarity Meter and Glossmeter must be calibrated and used in accordance with ASTM D5767 and ASTM D4039.

The minimum number of tests distributed across the polished surface should be three for areas up to 1000 ft² and one additional test for each 1000 ft² or fraction thereof. This applies to both the Image Clarity Value and Haze Index.

The mean (average) values of the test results should be used to evaluate compliance with this chart.

INSTRUMENT SPECIFICATION

Operation

- Full colour easy to read screen
- Adjustable brightness
- 6 button touch sensitive interface

Construction

- All aluminium construction – enclosure, optics, standard holder
- Integrated calibration holder with in-position detector for error free calibration

Statistical Analysis

- Max, min, mean, SD
- All measured parameters

Graphical Analysis

- On board trend analysis
- Gloss and IQ values

Power

- Rechargeable lithium ion
- 17+ hours operation
- 20,000+ readings per charge

Recharge Time

- Mains charger: 4hrs

Memory

- 8 MB = 999 readings
- User definable alphanumeric batching

Data Transfer

- BT wireless
- PC compatible
- USB connection, no software installation required

Dimensions & Weight

- 65mm x 140mm x 50mm (H x W x D)
- 790g
- Packed weight: 1.75kg
- Packed dimensions: 180mm x 330mm x 280mm (H x W x D)
- Commodity code: 9027 5000



INCLUDED ACCESSORIES

- Calibration tile with certificate
- USB data cable
- Novo-Gloss Multi Gauge Software
- USB

- Instruction manual
- Bluetooth data app
- Example Excel spreadsheets
- Instructional videos

EXTRAS

FREE EXTENDED WARRANTY

FREE LIGHT SOURCE WARRANTY

Guaranteed for the life of the instrument

CALIBRATION AND SERVICE

Fast and economical service via our global network of accredited calibration and service centres. For detailed information, please visit www.rhopointinstruments.com/support

INFORMATION

- Order Code
A6000-013-CCM

- Languages Available



RHOPOINT
INSTRUMENTS



Made in the UK

The Rhopoint IQ 20/60° Concrete Clarity Meter has been manufactured by **Rhopoint Instruments Ltd** since 2011