

micromatch ^{Plus}
Refs: 181 - 187



INTRODUCTION

The Sheen micromatch plus range combines accuracy and precision with ease of use, all in a single compact, lightweight hand held colour spectrophotometer. The micromatch is ideally suited to quality control, production line inspections and at on site meetings of technical staff. Because of the versatility of these instruments many industries have come to rely on the micromatch as the mainstay in determining their product quality, these include aerospace, automotive, coatings manufacturers and the construction industries.

FEATURES

- Colour and gloss measurement with one reading (only for units fitted with colour & gloss facility)
- Handheld unit weighing only 500g
- Long lasting standard AA batteries
- Temperature independent results
- Complies with all major international standards
- Simple four button operation
- Ergonomic design allows access to difficult to measure areas
- Data export to Office packages for data traceability procedures

PERFORMANCE

Part Number	Description	Colour Geometry	Gloss Geometry	Colour Aperture	Gloss Aperture	Aperture
181/1	Micromatch plus	45/0	-	20mm	-	open
181/2	Micromatch plus	45/0	-	11mm	-	open
181/3	Micromatch plus	45/0	-	4mm	-	open
182	Micromatch plus sphere	d/8 spin	-	11mm	-	open

183	Micromatch plus gloss	d/8	60°	11mm	5 x 10mm	open
184	Micromatch plus lookup	d/8 spin	-	11mm	-	open
185	Micromatch plus S/O	45/0	-	20mm	-	glass sealed
186	Micromatch plus S/O	45/0	-	11mm	-	glass sealed
187	Micromatch plus sphere S/O	d/8 spin	-	11mm	-	glass sealed

¹ 10 consecutive measurements on white tile

² Average on 12 BCRA II tiles

³ Gloss Units

All Systems come complete with:	Colour	Gloss
Micromatch Plus Black calibration standard White calibration standard, with certificate Green checking reference High gloss standard (only part no 183) Sample area locator Easy-link software Interface cable 4 x AA batteries Hand strap Carrying case Operating instructions Colour theory folder	Spectral range: 400 – 700nm Spectral interval: 20nm Repeatability: 0.01 ΔE^* , 1 σ ¹ Inter instrument Agreement 0.2 ΔE^* , 1 σ ² Colour system CIE Lab / Ch; Lab(h); XYZ; Yxy; RxRyRz Colour differences: ΔE^* ; $\Delta E(h)$; ΔE_{FMC2} ; ΔE_{94} ; ΔE_{cmc} ; ΔE_{99} ; ΔE_{2000} Component Differences: Indices: YIE313; YID1925; WIE313; CIE; Berger; Colour strength; opacity; metamerism Illuminants: A;C;D50; D55; D65; D75; F2; F6; F7; F8; F10; F11 Observer: 2°; 10°	Gloss range: 0 – 180 GU ³ Repeatability: 0.5 GU ³ Inter instrument Agreement: 1 GU ³ Memory: 200 standards 999 samples Language: English, German, French, Italian, Spanish, Japanese Power supply: 4 AA alkaline; NiCd or MH batteries Operating temperature: 10°C – 42°C (50°F – 110°F) Humidity: < 85% RH. Non condensing /35°C (95°F) Dimensions: 8 x 18 x 9.5 cm (HxDxW) (3.2 x 7 x 3.7 in) Weight: approx 0.5kg (1.1lbs)

ORDERING INFORMATION

181/1	Micromatch plus – 20mm viewing area
181/2	Micromatch plus – 11mm viewing area
181/3	Micromatch plus – 4mm viewing area
182	Micromatch plus, sphere spin – 11mm viewing area
183	Micromatch plus gloss
184	Micromatch plus lookup
184/1	RAL Colours Glossy
184/2	RAL Colours Matt
184/3	NCS Colours
185	Micromatch plus – 20mm viewing area - sealed optics
186	Micromatch plus – 11mm viewing area - sealed optics
187	Micromatch plus sphere spin – sealed optics

Owing to continuous development. we reserve the right to introduce improvements and modify specifications without prior notice.

Sheen INSTRUMENTS

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