

Optiform Blue

Replication Fluid

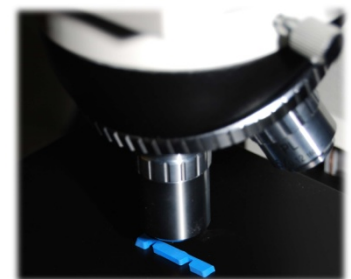
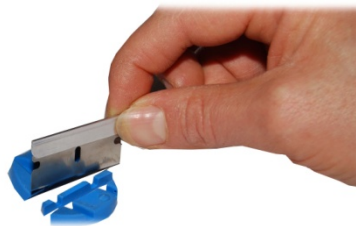
for Inspection & Measurement of Inaccessible Features or Large or Heavy Components



- Ø High resolution & low shrinkage
- Ø Non reflective, light efficient surface
- Ø Self mixing nozzle
- Ø Free flowing with minimum air entrapment
- Ø Fast cure, simple, clean process
- Ø Wide operating temperature
- Ø Flexible yet hard enough to section
- Ø Long shelf life, even when opened
- Ø Flexi-tip and needle-tip nozzle options

Optiform Blue is a high resolution, two part silicone replication material designed for inspection and metrology. The material exhibits high dimensional stability and low shrinkage. The free-flowing nature of *Optiform Blue* minimizes the risk of air entrapment in the replica, and cured replicas are easily sectioned for profile metrology applications.

Optiform Blue is highly suited to both metrology and inspection applications, including thread forms, undercuts, surface characterisation, surface finish, surface fracture, cracks, defects and metallography.



The process is extremely clean and easy to use. Simply apply the Optiform Blue fluid with the dispensing gun and leave for 5 minutes to cure. After this time it will have cured enough to be removed or extracted from the surface. It can then either be inspected or measured as a perfect replica of the original object, or be cut with a sharp blade, enabling profile measurement of the cross section.

Technical Specification

Resolution	Less than 0.1 microns
Shelf Life	Up to 24 months
Cured hardness	60 Shore A
Shrinkage	Less than 0.1%
Colour	Blue
Packaging	50ml twin pack cartridge
Useable temp range	-10°C to +60°C
Specific Gravity	1.1g/cm ³
Working Life	1 minutes @ 20°C
Curing Time	4-6 minutes @ 20°C

Working life and curing times vary with temperature – higher temperatures decrease working life and cure, lower temperatures increase working life and cure. Quoted times may vary up to +/- 15% between batches

Suitable Measurement & Inspection Equipment

Shadowgraphs and Projectors, Non-contact laser, Interferometer products, Video Measuring Systems, Optical Measuring Instruments, Scanning Electron Microscope

Microscopic Inspection – Incident light microscopes, Stereo microscopes, Digital and Video Microscopes

Standard Components - Product Description	Part Number
Optiform Starter Kit	PN40011001
Optiform Cartridge	PN40011002
Optiform Standard Nozzle – Pkt 10	PN40011003
Optiform Standard Nozzle – Pkt 100	PN40011004
Optiform Flexi-Tip Nozzle – Pkt 10	PN40011005
Optiform Dispensing Gun	PN40011006
Optiform Backing Slides – Pkt 10	PN40011007
Optiform Needle Tip – Pkt 3	PN40011008
Optiform Carry Case with Foam Insert	PN40011009



Optiform Blue Starter Pack

Contents:

50ml dispensing gun

2 x 50ml cartridges

2 x Pkt 10 standard nozzles

1 x Pkt 10 backing slides

Defining Quality through Optical Inspection & Measurement

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