4400M SURFACE REPLICATION KIT

The **4400M Surface Replication Kit** features high-resolution **Microset®** replication compounds. When used in conjection with the 8400K Optical Micrometer Kit, Microset compounds provide a quick and convenient method of obtaining precise measurements of damage in hard to reach places.

Common Applications:

Threaded Holes
Inside Diameters
Spline Inspection
Re-Entrant Geometries
Delicate Surface Finishes

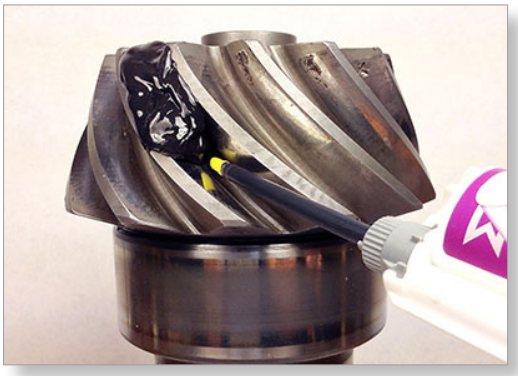
About Microset

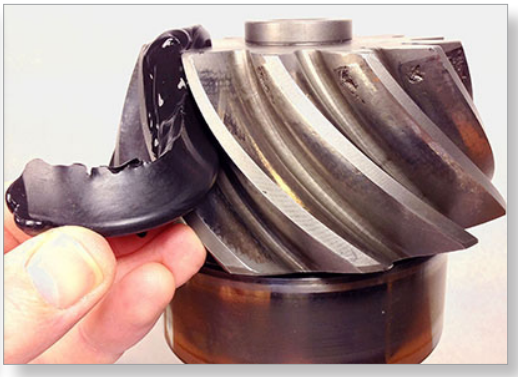
Microset compounds are specially formulated two-part polymers, designed for high resolution replication of surface details. They are supplied in convenient and reliable cartridge application systems which allow replicas to be made, in any shape or size, of most solid non-porous surfaces.

Microset compounds have sub-micron resolution making them ideal for the inspection of critical components. Replicas are dimensionally stable for geometric measurement and can be stored indefinitely for future reference.

Microset replicas are high strength elastomeric materials and can be removed from holes, tubes and moderate re-entrant geometries without damage to the replica surface. This capability facilitates the inspection of internal machined surfaces that are inaccessible using the Optical Micrometer alone.

Microset compounds are available in a variety of grades with varying cure times, viscosity and color to support different applications and environments. Compounds are easy to apply using a manual dispensing gun and an air-free mixing nozzle attached to the outlet of the cartridge. Each application delivers fully mixed replicating compound directly to the subject area.





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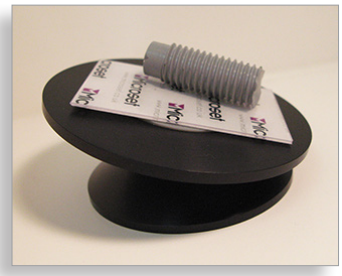
4400M SURFACE REPLICATION KIT

Each Kit Includes:

1x 50ML Dispensing Gun
5x 50ML Replication Compounds (choice of grade)
1x 50ML Nozzle Pack (One Pack of 50)
1x Backing Slides (One Pack of 50)
1x Backing Paper (One Pack of 100)
1x Tilting Stage Base
1x Tall Tripod Optical Micrometer Base
1x ABS Carrying Case



For more information on Microset, visit the manufacturer's website at **www.microset.co.uk**

MICROSET FLUID REPLICATING COMPOUNDS

Microset 101 Fluid Compounds are high resolution, two part silicone polymers designed for replication of metal surfaces. The free-flowing nature of these compounds minimizes the risk of air entrapment in the replica, and makes them easy to apply over large areas. They are suitable for replicating rough surfaces, cavities, tubes, threaded holes etc.

Technical Specifications:

Resolution: 0.1 microns
Shrinkage: Less than 0.1%
Shelf Life: 24 months
Color: Black or Grey
Cured hardness: 28-30 Shore A
Usable temperature range: -10C to +180C

GRADE	WORKING LIFE	CURE TIME	KEY FEATURES	TYPICAL APPLICATIONS
101RF	0.5 MIN	5 MIN	General purpose fast curing fluid material.	Replication of horizontal or sloping surfaces. Use in low temperature conditions or where rapid results are required.
101FF	4 MIN	30 MIN	General purpose fluid material.	Replication of horizontal or sloping surfaces. Use in normal or high temperature conditions.
101XF	15 MIN	60 MIN	Specialist purpose material.	Replication of horizontal or sloping surfaces.
101FS	50 MIN	210 MIN	Specialist purpose material.	Replication of horizontal or sloping surfaces.

MICROSET THIXOTROPIC REPLICATING COMPOUNDS

Microset 101 Thixotropic Compounds are high resolution, two part silicone polymers designed for replication of metal surfaces. The thixotropic nature of these compounds allows them to be applied on vertical and overhead surfaces without the compound dripping or flowing away from the area of interest

Technical Specification:

Resolution: 0.1 microns
Shrinkage: Less than 0.1%
Shelf Life: 15 months
Color: Black or Grey
Cured hardness: 28-30 Shore A
Usable temperature range: -10C to +180C

GRADE	WORKING LIFE	CURE TIME	KEY FEATURES	TYPICAL APPLICATIONS
101RT	0.5 MIN	5 MIN	Fast curing thixotropic material.	Replication of vertical or overhead surfaces. Use in low temperature conditions or where rapid results are required.
101TH	3 MIN	20 MIN	General purpose thixotropic material.	Replication of vertical or overhead surfaces. Use in normal or high temperature conditions.
101THS	7 MIN	30 MIN	Specialist purpose material.	Replication of vertical or overhead surfaces.
101XFT	15 MIN	60 MIN	Specialist purpose material.	Replication of vertical or overhead surfaces.