

## Liquid Metal

### DESCRIPTION

Liqui Moly Liquid Metal is a fast-curing 2 component epoxy adhesive with very high strength properties. Liqui Moly Liquid Metal is used to fill or level missing spots in a variety of materials such as aluminium, copper, steel, brass, concrete, FK/SMC, wood, glass, plastics, ceramics, painted metal, graphite, polyurethane, galvanised metals, hard plastics, etc. or to bond different materials together. After curing the repaired spot can be machined again, ground or painted over. The maximum bonding strength is achieved at a visual thickness of approx. 0.13 mm. The full bonding strength develops after approx. 2 - 3 hours.

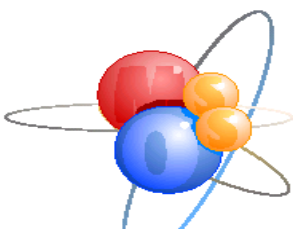
### PROPERTIES

- fast-curing
- for permanent quick repairs
- further machining possible after curing
- can be ground and painted over
- universally applicable
- high strength
- good chemical resistance
- superior bonding with other materials

### TECHNICAL DATA

Viscosity (mixed) at 25 °C	:	15 000 – 20 000 Pas
Mixing ratio	:	1:1
Colour resin	:	black
Colour hardener	:	white
Colour mixed	:	grey
Processing time:	:	4-6 min.
Specific gravity	:	1.30 g/cm <sup>3</sup>
Solids	:	100%
Temperature resistance	:	to max. 120 °C
Final strength	:	2-3 hours
Shore hardness	:	78-80 (ASTM D 2240)
Comb. tension/shear resistance:	:	14-18 N/mm <sup>2</sup> (DIN 53283)
Shear strength	:	3-5 N/mm <sup>2</sup> (ISO 4578)
Steel (sandblasted)	:	25 N/mm <sup>2</sup> 3.600 PSI
Aluminium (sandblasted)	:	15 N/mm <sup>2</sup> 2.200 PSI
Wood	:	5 N/mm <sup>2</sup> 730 PSI
Thermal conductivity	:	0.1 W/mK
Thermal expansion coefficient	:	60 – 120 x 10E <sup>-6</sup> 1/k
Dielectric strength	:	50 – 90 kv/mm
Spec. insulation resistance	:	3 -5 x 10E <sup>12</sup> Ohm/cm
Chemical resistance	:	excellent against gasoline, ethanoic acid (10%), xylene, motor oil, paraffin and water.
Shelf life	:	12 months*

\*ideal storage conditions (dark and dry) at temperatures up to max. 15 °C.



# PRODUKTI NFORMATION



## USES

Liqui Moly Liquid Metal is used to fill and level cracks, holes, misdrills, porous spots as well as for the repair of pipes, tanks, threads, body and machine parts or the for the bonding of different metals, also between them.

## APPLICATION

Liqui Moly Liquid Metal comes in a practical twin-syringe where the mixing ratio of the two components is automatically dosed correctly. For processing and optimal mixing the mixing tips 7700 mini item.no. 6242 are available. The surfaces to be bonded must be dry, free from oil, grease, dust and other dirt residues. We recommend Liqui Moly Cleaner & Thinner Item No. 6130 for cleaning.

Apply Liqui Moly Liquid Metal to the spot to be processed and spread with a putty knife, if applicable. After curing the repaired spot can be machined again, ground or painted over.

## AVAILABLE CONTAINERS

Liquid Metal 25 ml Item.No. 6193 D-GB-F-I-E-NL-P

PI 07/09/11

**Our information is based on conscientious investigations and may be considered reliable; however, the information can only be non-binding advice.**

