

# Metolux

## Metoset Liquid Repair Mortar



Supplied with Hardener tube  
inside the packaging

# Product Data Sheet

**Application and Use** Metolux 2 Part liquid Repair Mortar is a two component polyester mortar for crack repairs or used alternatively to fix threaded rod or rebar in a concrete floor, stone or plain brick.

**Key Benefits and applications**

- Fixing of rods or rebars in solid supports
- Useful to fill cavities, cracks or difficult access areas
- Easy to apply
- High mechanical and physical resistance

## Typical Data

### Physical Properties

Nature: unsaturated polyester resin

- Mixed Colour: Grey
- Specific weight: 1,65 kg/l at 20°C
- VOC: 6,0 g/l

Mixing Application

### Packaging

- Metallic can: 5 Kg (comp. A - polyester resin) and plastic tube: 100 g (comp. B - hardener)
- Metallic can: 1 Kg (comp. A - polyester resin) and plastic tube: 20 g (comp. B - hardener)

### Gelling and Curing Times

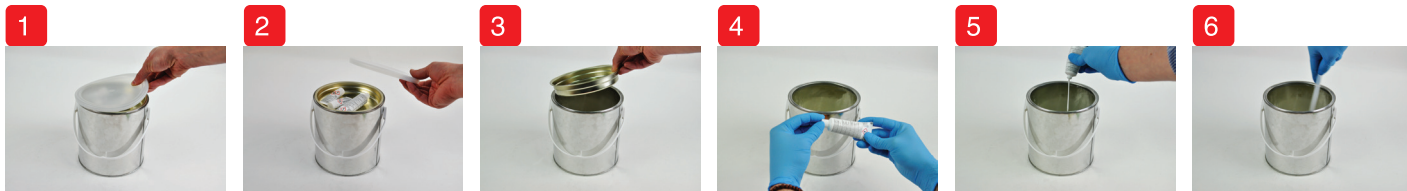
Base Material Temperature	35	30	25	20	10	5
Typical Gel Time (mins)	6	8	12	18	40	55
Min. Load Time (mins)	50	60	90	120	180	240

## Application

- Remove water and dirt (dust and loose material) with a circular brush and a blower or with air pressure.
- Mix both components thoroughly to reach a homogeneous mixture (use a drill with a mixer).
- The items to be fastened must be clean.
- Spill the product from the base of the hole until 2/3 full.
- Insert the element to be fastened rotating, if necessary, keep the position with a suitable device.
- Wait the recommended working and drying times.

If filling deep holes, multiple applications are recommended. Some shrinkage may occur on large volumes.

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## Technical Data

Anchor	Installation					Resistance	Loads	
Rod Class 5.8	Drill Diameter $d_0$	Embedment Depth $h_{ef}$	Standard Edge Distance $C_{cr}$	Standard Anchor Distance $S_{cr}$	Torque Moment $T_{inst}$	Characteristic resistance $N_{Rk}$	Concrete C20/25	Concrete C20/25
	[mm]	[mm]	[mm]	[mm]	[Nm]	Tensile [kN]	Tensile [kN]	Shear [kN]
M12	14	110	110	220	40	22.7	7.6	13.4
M16	18	140	140	280	60	38.5	12.8	24.9
M20	24	180	180	360	100	61.9	20.6	39.2
M24	28	220	220	440	150	90.7	30.2	52.3

Safety factor for tension load = 3  
Rebar data available on request

Mechanical Characteristics	Units	Standard	Average Value
Tensile Strength	[N/mm <sup>2</sup> ]	ASTM D638	11.6
Tensile modulus	[N/mm <sup>2</sup> ]	ASTM D638	5045
Compressive strength	[N/mm <sup>2</sup> ]	ASTM D695	76
Compressive strength	[N/mm <sup>2</sup> ]	EN 196-1	76
Flexural strength	[N/mm <sup>2</sup> ]	ASTM D790	21
Flexural modulus	[N/mm <sup>2</sup> ]	ASTM D790	1402

## Handling and Storage

### Safety

Follow instructions of product label. For more information check the Safety Data Sheets. Compliant with the National Statutory Regulation for Health and Safety at Work and Waste Disposal.

### Storage

Store the product in a ventilated place away from direct exposure to sunlight. Keep between 5°C and 25°C.

### Shelf Life

In unopened original packaging, one year from manufacturing date