

■ ultrametal UM #1250

Product description

ultrametal UM1250 is a high quality two-component polymer material for repair and touch-up of metals. The solvent-free epoxy resin system has high chemical resistance and does not corrode on surfaces. It is a fast curing system and the use of special raw materials and additives makes it possible to carry out repairs in the shortest time under the most difficult application conditions.



Characteristics

- can be machined like metal: filing, milling, turning, drilling
- no shrinkage, therefore ideal for use on large surfaces
- fast curing
- high mechanical strength
- chemical resistant

Typical application

- Ship, car, railroad, transformer and other parts in the metal processing industry
- especially for housings, pumps, containers, engine blocks, cylinder heads, gearboxes, radiator propellers, etc.
- with perfect adhesion, load values and resistance to rust, weathering, even on wet or oily surfaces.

Pack sizes

Article	Description
---------	-------------

UMC 250g	
----------	--

Custom sizes on request.

Produktdaten Anlieferzustand

Hue	grey
-----	------

Density	1,2 g/cm ³
---------	-----------------------

Mixing ratio	1:1
Pot life	10- 15 minutes 100g at 20°C
Curing Aushärtung	cured after 4 hours

Product data (reactive product)

Density	1.2 g/cm ³
Compressive strength	160 N/mm ² / psi
Strength	89
Tensile strength	76 N/mm ² / psi
Tensile shear strength	22 N/mm ² / psi
Flexural strength	89
Impact strength	5.2
E-Modul	4000
Temperature resistance (permanent)	100 °C
Temperature resistance (briefly)	150 °C
Shrinkage	0.004 mm/cm

custody / durability

Store dry and frost-free in the unopened container. Durability 24 months. Avoid direct sunlight. Higher temperatures reduce the durability.

Preparation Processing

Adhesion surfaces have to be roughed and cleaned with DIAMANT cleaner. The surface has to be dry and clean.

Mixing

Break open the ends of the twin syringe and press the required amount of UM 1250 onto a clean mixing plate. Mix the 2 components together for approx. 2min. to a homogeneous mass and repair the corresponding area.

First apply a thin adhesive layer with pressure to the adhesive surface. When used on oily and greasy repair areas, UM1250 must be applied intensively with pressure (penetration of the oil-grease film on the adhesive surface). Then immediately apply the necessary layer thickness of the damaged area. To be noted: The cap of the tip container should always be closed after application.

Curing

The treated surfaces can be used for light loads after 2 hours. After 4 hours the surface is fully cured and can be used for full loads.

Disposal

Any material which is not used, mixed correctly and completely cured can be disposed normally (EAKV 170203). Not mixed material has to be disposed as chemical waste (EAKV 080111). If booked the DIAMANT-service team will dispose the waste.

Further information can be found in the service data sheet.

Safety data sheet

Please read the relevant safety data sheet before processing the product. Safety data sheets are available daily on request via info@diamant-polymer.de or by phone at +49-2166-98 360. DIAMANT guarantees the product characteristics as long as they are stored and used according to the specifications listed here. DIAMANT assumes no responsibility for the processing of the material. For further questions, our technicians will help you.

disclaimer

The following replaces the Buyer's documents. The Seller does not make any representations or warranties, express or implied, including as to merchantability or fitness for a particular purpose. Although the notices and information contained in this document are based on our own findings and are considered reliable, we cannot accept any responsibility for the suitability or results of further processing of the products described, nor can we accept any responsibility for any loss or damage caused directly or indirectly by the processing of our products. The processor is obliged to test the quality, safety and other relevant properties before using the described products. We guarantee the flawless quality of our products in accordance with our General Terms and Conditions. The Buyer's sole remedy and the Seller's sole liability for any claims are the Buyer's purchase price. No reference in this document may be construed as an incentive, recommendation or permission to disregard existing intellectual property rights. When handling our products, the occupational hygiene and legal regulations must be observed. For the rest, please refer to the corresponding safety data sheets.

This issue replaces all previous versions.