

## ultrametal Iron FL

Product number #2453

### Product description

ultrametal Iron FL is a highgrade two-component polymer material made for the repair of metals. The solvent-free epoxy resin system has a high chemical resistance and does not corrode.

### Characteristics

- Workable like metal: filing, milling, drehen, drilling
- Perfect metal character due to up to 90% metal filling material
- No shrinkage, perfect for large surfaces
- Long pot life
- High mechanical strength
- Chemical resistant

### Typical application

- Coating of pumps, containers and heat exchangers
- Axle and shaft repairation
- Maintenance and Repairation of all metal parts
- Restructuring projects

### Package sizes (kpl.)

Double pack (resin and hardener):  
250g / 500g / 1.000g  
Large packages upon request

### Important notes

Please consider the information given in the safety data sheet.

### Technical data

Technical data	Standard hardener #2450
Pot life (+20°C) [Min.] 100g	45 to 55
Mechanical machining (+20°C) [h]	after 24
Spec. weight [g/cm <sup>3</sup> ]	2,3
Hardness [Shore D]*	85
Temperature resistance permanent [°C]	-32 up to +160
Complete chemical resistance after [days]*	7
Mixing ratio #2453A to #2450	68 to 32

\* Values at 20 ° C and 50% r.F.

# Technical data sheet

## Preparation Processing

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

## Mixing

Pour the hardener fluid (# 2450) in the specified ratio onto the resin component (# 2453A). Manually mix with the spatula or by machine (propeller mixer, at 125 rpm for 2 min.) Until the hardener has completely mixed with the viscous resin. Material adhering to the walls and bottom of the container must be added to the mixing process by detaching it with suitable tools. The material should be used immediately after the mixing process.

## Curing

The treated surfaces can be used for light application after 18 hours. After 24 hours the surface is completely cured and is resilient completely.

## Storing/durability

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

## 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.

## Qualification and service:

It is recommended that the application is performed by schooled DIAMANT technicians. To guarantee the best possible quality and a correct application, we offer the following services:

- Consultation on the phone or/and in person on your construction site
- Construction site supervision and supervision of the work on site.
- Complete application performed by our experienced application technicians.

*Further information can be found in the service data sheet.*

[www.diamant-polymer.de/en/installation-service/](http://www.diamant-polymer.de/en/installation-service/)

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The listed technical data were determined under laboratory conditions and verified by quality assurance processes at the day of production. Changes are reserved and can be implemented without previous information. The customer is responsible for the verification of data topicality and should be requested before the material ordering at DIAMANT. Application, use and processing of the products happen outside of our control options and therefore lie entirely in the area of responsibility of the customer. Should nevertheless a liability come into question so is this liability limited to the value of the items delivered and used by you. We guarantee the perfect quality of our products according our general sale and delivery conditions. All technical data can differ depending on burden and operating conditions. Specific application data will be provided upon request in every individual case.